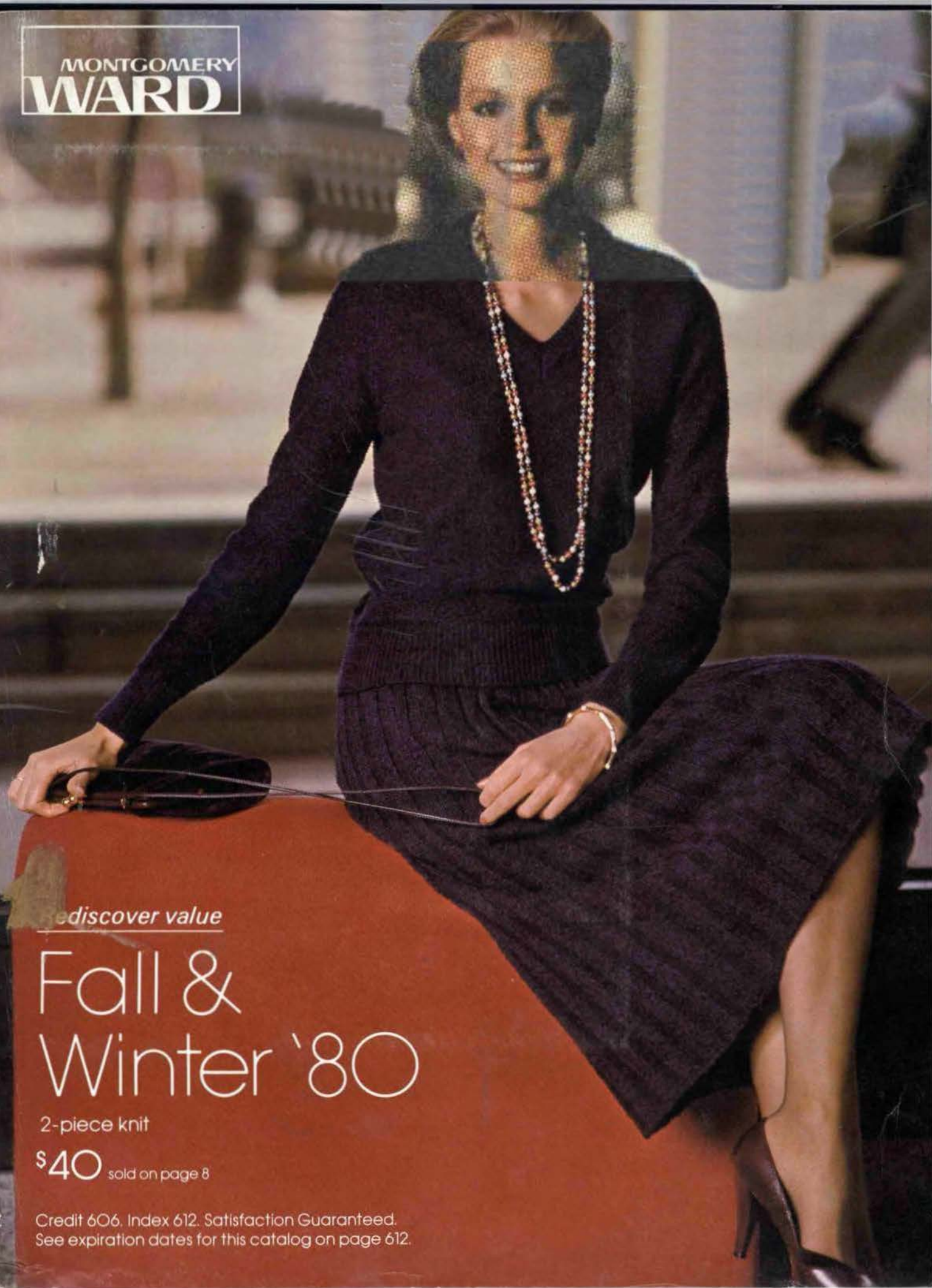


MONTGOMERY
WARD



rediscover value

Fall & Winter '80

2-piece knit

\$40 sold on page 8

Credit 606. Index 612. Satisfaction Guaranteed.
See expiration dates for this catalog on page 612.

Tool chests and cabinets *An Outstanding Product*

Powr-Kraft chests have more tool storage capacity than most similar competitive models. Cabinets reinforced for durability. Great for professional or do-it-yourself needs.



Even 12-in. wrenches fit front-to-back

Chests have personal security drawer with separate lock

Bottom drawers extra deep for large tools



Our largest chest and cabinet have 36% more storage capacity than (A), (B) above

Chest

\$279

Cabinet

\$369

SAVE \$50 when you buy chest/cabinet in combination . . . only **\$598**

34 in. wide for big storage needs. All the features above, plus heavier gauge steel for added strength. Cabinet has big durable 5-in. casters. Built with the professional in mind.

26-In-wide Powr-Kraft Chests 129⁹⁹ to 179⁹⁹ Cabinets 139⁹⁹ to 229⁹⁹

CONSTRUCTION (for (A) thru (H)): Durable mill steel, texturized protective silicone finish. One-piece slide design: drawers to slide easier, last longer. Built-in locks two coded keys. Handles attach easily with screwdriver.

A 12-drawer chest.

DRAWERS: All are 12¹/₂ in. front-to-back with nine 7¹/₂ in. wide x 1¹/₂ in. high, two 23⁷/₈ in. wide x 1¹/₂ in. high, one 23⁷/₈ in. wide x 3¹/₂ in. high.

TILL: Locking lid. Includes lift-out tote tray.

OVERALL: 26¹/₂ x 13¹/₂ x 20⁷/₈ in. high.

84 A 4258 R—Ship. wt. 78 lbs. 179.99

B Ten-drawer cabinet.

DRAWERS: All are 21¹/₂ in. wide and 16¹/₂ in. front-to-back with five 1¹/₂ in. high, four 2¹/₂ in. high, and one 5¹/₂ in. high.

CASTERS: 2 fixed and 2 swivel/braking casters. 4 in.

OVERALL: 26¹/₂ x 17 x 39¹/₂ in. high.

84 A 4265 R—Ship. wt. 149 lbs. 229.99

SAVE \$20 on combination of chest (A), cabinet (B).

84 A 4293 R—Ship. wt. 227 lbs. both for 389.98

C Ten-drawer chest.

DRAWERS: All are 12¹/₂ in. front-to-back with six 7¹/₂ in. wide x 1¹/₂ in. high, one 7¹/₂ in. wide x 5¹/₂ in. high, two 23⁷/₈ in. wide x 1¹/₂ in. high, and one 23⁷/₈ in. wide x 3¹/₂ in. high.

TILL: Locking lid. Includes lift-out tote tray.

OVERALL: 26¹/₂ x 13¹/₂ x 20⁷/₈ in. high.

84 A 4257 R—Ship. wt. 74 lbs. 169.99

D Seven-drawer cabinet.

DRAWERS: All 16¹/₂ in. front-to-back with two 10¹/₂ in. wide x 1¹/₂ in. high; two 21¹/₂ in. wide x 1¹/₂ in. high, two 21¹/₂ in. wide x 2¹/₂ in. high, and one 21¹/₂ in. wide x 5¹/₂ in. high.

STORAGE COMPARTMENT: Measures 26¹/₂ x 17 x 12¹/₂ in. high. Includes pull-down locking cover.

CASTERS: 2 fixed and 2 swivel/braking 3 in. casters.

OVERALL: 26¹/₂ x 17 x 39¹/₂ in. high.

84 A 4264 R—Ship. wt. 120 lbs. 199.99

E Six-drawer chest.

DRAWERS: All are 12¹/₂ in. front-to-back with three 7¹/₂ in. wide x 1¹/₂ in. high, two 23⁷/₈ in. wide x 1¹/₂ in. high, and one 23⁷/₈ in. wide x 3¹/₂ in. high.

TILL: Locking lid. Includes lift-out tote tray.

OVERALL: 26¹/₂ x 13¹/₂ x 18¹/₂ in. high.

84 A 4256 R—Ship. wt. 58 lbs. 129.99

F Three-drawer cabinet.

DRAWERS: All are 21¹/₂ in. wide and 16¹/₂ in. front-to-back with two 2¹/₂ in. high, one 5¹/₂ in. high.

STORAGE COMPARTMENT: Measures 26¹/₂ x 17 x 13¹/₂ in. high. Includes pull-down locking cover.

CASTERS: 2 fixed and 2 swivel/braking 3 in. casters.

OVERALL: 26¹/₂ x 17 x 31¹/₂ in. high.

84 A 4263 R—Ship. wt. 86 lbs. 139.99

G Add-on cabinet hangs on either side of (B), (D), (F).

DRAWERS: Two, measuring 11 x 11¹/₂ x 1¹/₂ in. high.

STORAGE COMPARTMENT: Divided by center shelf. Locking door has magnetic latch. Two coded keys.

OVERALL: 14¹/₂ x 14¹/₂ x 26 in. high.

84 A 4273 A—Ship. wt. 38 lbs. 69.99

H Add-on chest positions between cabinets and chests sold above for even more storage space.

DRAWERS: Two, measuring 23¹/₂ x 12¹/₂ x 3 in. deep.

OVERALL: 26¹/₂ x 13¹/₂ x 9 in.

84 A 4280 M—Ship. wt. 36 lbs. 67.99

Powr-Kraft oversize chest and cabinet

I 12-drawer chest. Over 18.4 cu. ft. of storage.

DRAWERS: All are 12¹/₂ in. front to back with six 7 in. wide x 1¹/₂ in. deep; three 14¹/₂ in. wide x 1¹/₂ in. deep; two 31¹/₂ in. wide x 1¹/₂ in. deep and one 31¹/₂ in. wide x 3¹/₂ in. deep.

TILL: Locking lid with support brackets, includes lift-out tray. Top center drawer locks separately.

OVERALL: 34 in. wide x 13¹/₂ in. deep x 20¹/₂ in. high.

84 A 4291 R—Ship. wt. 105 lbs. 279.00

J 10-drawer roller cabinet. Over 34 cu. ft. of storage.

DRAWERS: All are 29¹/₂ in. wide and 16¹/₂ in. front to back. The top one is divided into three compartments, front to back. The other nine divided into two. Five are 1¹/₂ in. deep, 4 are 2¹/₂ in. deep, and one is 5¹/₂ in. deep.

OVERALL: 34¹/₂ x 17¹/₂ x 40 in. high. 5-in. casters, two are swivel with brakes.

84 A 4292 R—Ship. wt. 205 lbs. 369.00

BUY BOTH AND SAVE \$50.

84 A 4295 R—Comb. (I) and (J). Wt. 310 lbs. set 598.00



K



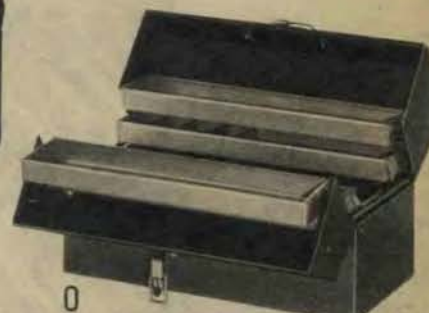
L



M



N



O



P

Our lowest-priced tool box

7⁸⁸



Q

Tool boxes and smaller chests

• Cold-rolled mill steel

• Drawers open all the way

K 22-in. two-drawer chest.

DRAWERS: Two 20x8x3 in. high. Drawers lock when lid is closed.

TWO PLATED LATCHES with padlock hasps.

OVERALL: 22x8¹/₂ x 10¹/₂ in. Gray with red drawers.

84 A 4338 M—Ship. wt. 18 lbs. 39.99

L 20-in. flat-top box—our most popular style.

TRAY: Lift-out tote type has handy divided compartments.

PADLOCK HASP attached for security.

OVERALL: 20x8¹/₂ x 9¹/₂ in. high. Red.

84 A 4309 M—Ship. wt. 11 lbs. 18.99

M Two-drawer chest.

DRAWERS: Two 18¹/₂ x 7 x 1¹/₂ in. high. Drawers lock when lid is closed. Padlock hasp.

OVERALL: 20¹/₂ x 8¹/₂ x 9¹/₂ in. Gray, red drawers.

84 A 4259 A—Ship. wt. 14 lbs. 29.99

N Tool box. Steel with plastic handle.

TRAY: Lift-out small parts type.

PADLOCK HASP attached. Luggage-type latch.

OVERALL 19x7¹/₂ x 7¹/₂ in. high. Blue.

84 A 4390 M—Ship. wt. 5 lbs. 10.99

O Cantilever tool box. TRAYS: Four. Unfold as box is opened. Storage compartment beneath trays. Gray with red trays.

HEAVY-DUTY LATCH with padlock hasp.

OVERALL: 22x10¹/₂ x 13 in. high.

84 A 4387 A—Ship. wt. 22 lbs. 47.99

P Tool box. Same features as (N) except 15x7x7¹/₂ in. high overall. Blue.

84 A 4380 M—Ship. wt. 5 lbs. 7.88

Q Machinist's chest. DRAWERS: Seven, all felt lined to protect tools. TILL: felt lined.

FULL FRONT PANEL covers drawers and locks in place; slides under drawers when case is opened. Coded lock and keys.

OVERALL: 20x8¹/₂ x 13¹/₂ in. high.

84 A 4285 A—Ship. wt. 28 lbs. 69.99

Budget-priced chest and cabinet

Chest 7⁸⁸ Cabinet 9⁸⁸

R 4-drawer chest. DRAWERS: 23¹/₂ in. wide x 12¹/₂ in. front-to-back.

Three are 1¹/₂ in. high, one is 2¹/₂ in. high. Lock with heavy-duty steel rod. TILL: 25¹/₂ x 12¹/₂ x 2¹/₂ in. high. Has cylinder lock and key. CHEST

OVERALL: 26x12¹/₂ x 14¹/₂ in. high.

84 A 4346 A—Ship. wt. 48 lbs. 79.88

S 3-drawer cabinet. DRAWERS: 21¹/₂ x 16¹/₂ x 2¹/₂ in. high. STORAGE COMPARTMENT: 26x17x15 in. high. Panel covers compartment. Drawers and panel lock with heavy-duty steel rod. Coded cylinder lock and keys. CASTERS: four, 3 in. diam. Two fixed, two swivel with brakes.

CABINET OVERALL: 26¹/₂ x 17 x 29¹/₂ in. high.

84 A 4345 R—Ship. wt. 70 lbs. 99.88

Why drive? Just phone your order.

ALL WARDS 921

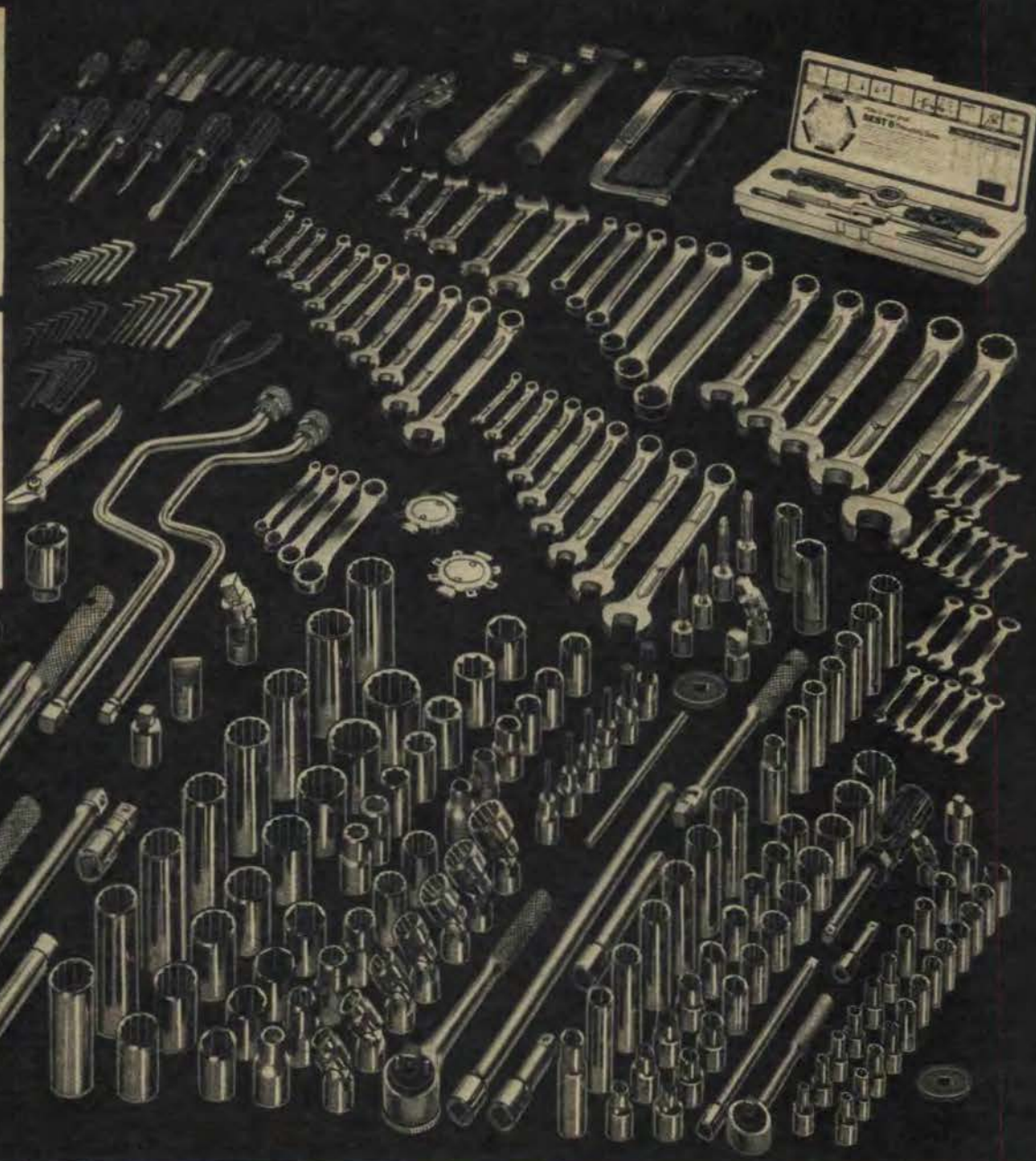


R

S



see pg. 926



SAVE \$77 on 300-pc. Powr-Kraft SAE and metric tool set **\$579** tools only

FULL NO-TIME LIMIT WARRANTY

If this Powr-Kraft mechanics' tool ever fails to give complete satisfaction, return it to any Montgomery Ward branch, and Wards will replace it free of charge.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

MONTGOMERY WARD & CO.
DEPARTMENT 84
MONTGOMERY WARD PLAZA
CHICAGO, ILLINOIS 60671

1/4-INCH DRIVE: Nine 6-pt. SAE sockets ($\frac{3}{16}$ to $\frac{1}{2}$ in.), three 8-pt. SAE sockets ($\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{4}$ in.), ten 8-pt. metric sockets (4, 5, 5.5, 6, 6.3, 7 to 11mm), 2-in. extension bar, 6-in. extension bar, spin disc, spinner handle, universal joint, ratchet plus socket case for $\frac{1}{4}$ -in. sockets.

3/4-IN. DRIVE: Four 6-pt. SAE sockets ($\frac{1}{2}$ to $\frac{7}{8}$ in.), two 6-pt. SAE deep sockets ($\frac{3}{4}$, $\frac{7}{8}$ in.), seven 12-pt. SAE sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), six 12-pt. SAE deep sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.) tray for $\frac{3}{4}$ in. drive deep sockets, two sparkplug SAE sockets ($\frac{1}{2}$, $\frac{3}{4}$ in.), fourteen 6 pt. metric sockets (7 to 15mm, 17, 19, 21, 22, 24mm), four 6 pt. metric deep sockets (10 to 13mm), three 12 pt. metric deep sockets (14, 17, 19mm), six SAE hex bit sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), case for hex bit sockets, two 8-pt. SAE universal sockets ($\frac{3}{4}$, $\frac{7}{8}$ in.), five 12-pt. SAE universal sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), regular screwdriver socket, three Phillips screwdriver sockets (#2, #3, #4), spin disc, three extension bars (2 $\frac{1}{2}$, 5, 12 in.), universal joint, Powr-Eject ratchet (see page 926), two adapters ($\frac{1}{4}$ F to $\frac{1}{2}$ in. M and $\frac{3}{4}$ F to $\frac{1}{2}$ in. M), flex handle, crossbar for flex handle and speeder handle.

1/2-IN. DRIVE: Six 6-pt. SAE sockets ($\frac{3}{8}$ to $\frac{1}{2}$ in.), six 8-pt. SAE sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), fourteen 12-pt. SAE sockets ($\frac{1}{2}$ to $1\frac{1}{4}$ in.), seven 12-pt. SAE deep sockets ($\frac{3}{4}$ to $1\frac{1}{4}$ in.), ratchet, adapter ($\frac{1}{2}$ in. F to $\frac{3}{4}$ in. M), spin disc, flex handle, cross bar for flex handle, three extension bars (2, 5, 10 in.), universal joint, drag link socket and speeder handle.

WRENCHES: Fourteen SAE combination wrenches ($\frac{1}{4}$ to $1\frac{1}{2}$ in.), eleven metric combination wrenches (7 to 15, 17, 19mm), six long box SAE ($\frac{1}{4}$ to $1\frac{1}{2}$ in.), four short box SAE ($\frac{1}{4}$ to $\frac{3}{4}$ in.), six SAE open end ($\frac{1}{4}$ to $\frac{3}{4}$ in.), 8 pc. SAE ignition wrench set and 8 pc. metric ignition wrench set.

ALSO: 10-in. groove joint plier, 6-in. needle nose plier, 10-in. vise grip plier, slip joint plier, three sq. bar screwdrivers (4, 6, 8 in.), Phillips stubby screwdriver #2, three Phillips screwdrivers (#1, #2, #3), 1 $\frac{1}{2}$ -in. roundbar stubby screwdriver, offset screwdriver, twelve-pc. punch and chisel set, 10-in. taper punch, 20-pc. SAE hex key set, 13-pc. metric hex key set, two ball peen hammers (8, 12 oz.), hacksaw frame with 16 blades, 18-pc. tap and die set, stop light/oil pressure light socket, round sparkplug gauge and electronic ignition sparkplug gauge. Tools sold separately 656.89 on pages 926, 927 of this book and on page 62 of Wards 1980 Farm Catalog.

84 A 6795 R—Warranty at left. Wt. 65 lbs. set 579.00

A SAVE \$20 when you buy this 6-drawer chest (sold on pg. 921), and tool set 6795 above. Wt. 123 lbs.

84 A 6792 R Separately 708.99; combo 688.99

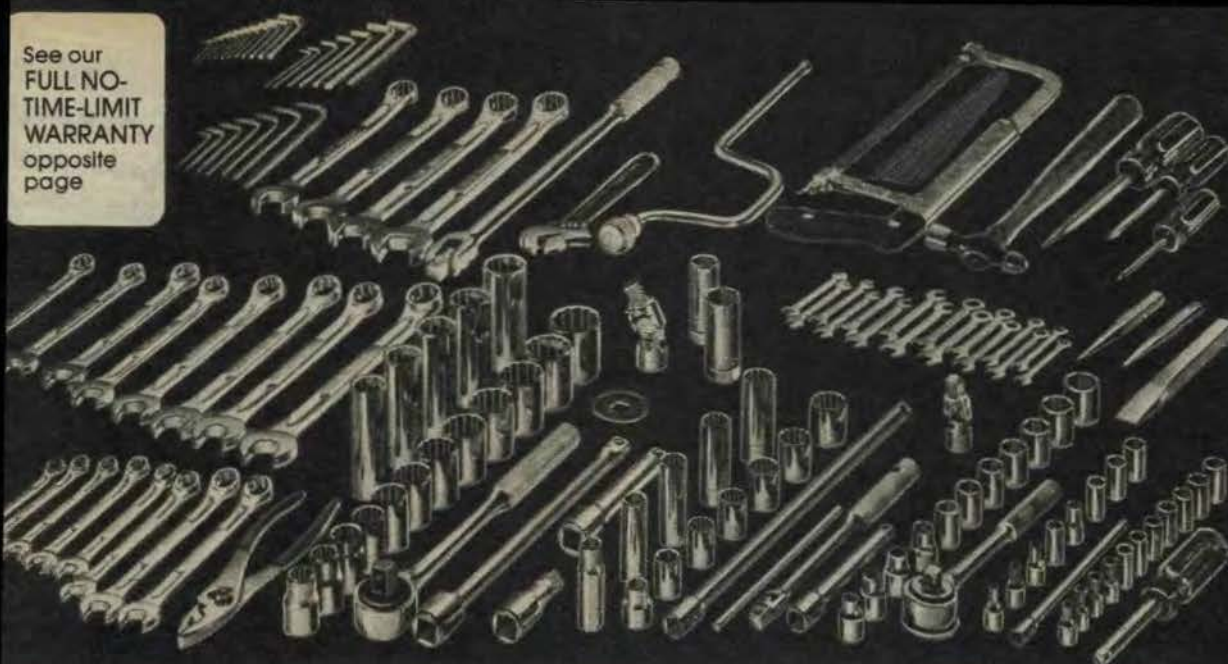
B SAVE \$20 when you buy this 3-drawer cabinet (sold on page 921) and tool set 6795 above. Wt. 151 lbs.

84 A 6793 R separately 718.99; combo 698.99

SAVE \$50 when you buy all three: 6-drawer chest (A), 3-drawer cabinet (B) and 300-pc. SAE and metric tool set 6795 above. Ship. wt. 209 lbs.

84 A 6794 R separately 848.98; combo 798.98

See our
FULL NO-
TIME-LIMIT
WARRANTY
opposite
page



Powr-Eject $\frac{1}{4}$ "-dr.



see pg. 926

SAVE \$41 on Powr-Kraft 160-pc. SAE and metric tool set **269⁹⁹** tools only

$\frac{1}{4}$ -INCH DRIVE: Eight 6-pt. SAE sockets ($\frac{1}{8}$ to $\frac{7}{16}$ in.), three 8-pt. SAE sockets ($\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$ in.), eight 6-pt. metric sockets (4 to 11mm), spinner handle, 6-in. extension and box for $\frac{1}{4}$ in. drive sockets.

$\frac{3}{8}$ -IN. DRIVE: Two 6-pt. SAE sockets ($\frac{1}{8}$, $\frac{7}{16}$ in.), two 6-pt. SAE deep sockets ($\frac{3}{8}$, $\frac{7}{16}$ in.), five 12-pt. SAE sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), three 12-pt. SAE deep sockets ($\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$ in.), two 6-pt. sparkplug sockets ($\frac{5}{16}$, $\frac{11}{16}$ in.), eleven 6-pt. metric sockets (7 to 15, 17, 19mm), Powr-Eject ratchet, flex handle, flex handle crossbar, speeder handle, 5-in. 12-in. extensions and universal joint.

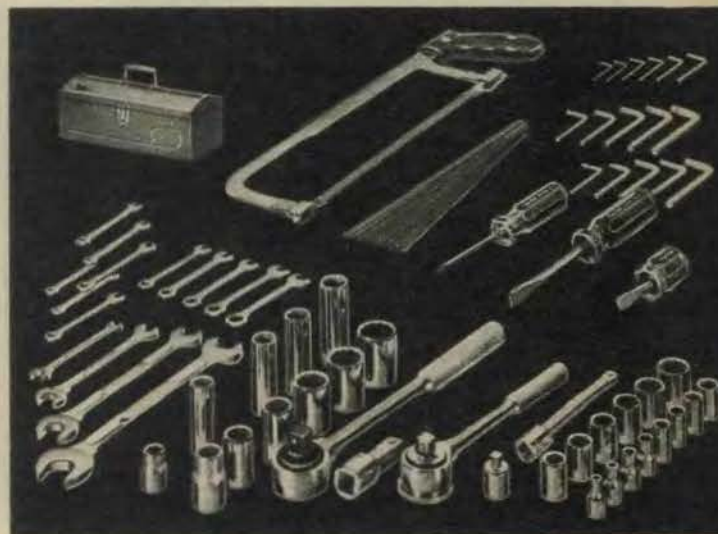
$\frac{1}{2}$ -INCH DRIVE: twelve 12-pt. SAE sockets ($\frac{7}{16}$ to $1\frac{1}{2}$ in.), five 12-pt. SAE deep sockets ($\frac{7}{16}$ to $1\frac{1}{2}$ in.), ratchet, spin disc, $2\frac{1}{2}$, 5, 10-in. ext., flex handle, univ. joint.

WRENCHES: Ten SAE combinations ($\frac{3}{8}$ to $1\frac{1}{2}$ in.), eight metrics (8, 9, 10, 12, 13, 14, 17, 19mm). ALSO: 8-oz. ball peen hammer, hacksaw with 11 blades, $\frac{3}{4}$ -in. prick and center punches, cold chisel, 4-in., 6-in. sq. bar, #1 Phillips screwdrivers, 6-in. slip joint plier, 8-in. adj. wrench, 8-pc. SAE and 8-pc. metric ignition wrench sets, 7-pc. metric and 20-pc. SAE hex key set. Warranty opp. pg.

84 A 6713 M—Sep. 311.55 pgs. 926, 927, and 62 Farm Book. Wt. 29 lbs. set 269.99

Save \$15—buy 6-dr. chest or 3 dr. cabinet (pg. 921) and tool set

(A) 84 A 6730 R—Chest (pg. 921) and tool set. 87 lbs. Sep. \$399.98; combo 384.98
(B) 84 A 6731 R—Cabinet (pg. 921) and tool set. 115 lbs. . Sep. 409.98; combo 394.98



SAVE \$22 100-pc. SAE Powr-Kraft tool set **139⁹⁹**

$\frac{1}{4}$ -IN. DRIVE: Eight 6-pt. SAE sockets ($\frac{1}{8}$ to $\frac{7}{16}$ in.), two 8-pt. SAE sockets ($\frac{1}{2}$, $\frac{3}{4}$ in.), spinner handle.

$\frac{3}{8}$ -IN. DRIVE: Two 6-pt. SAE sockets ($\frac{1}{8}$, $\frac{7}{16}$ in.), two 6-pt. deep sockets ($\frac{3}{8}$, $\frac{7}{16}$ in.), five 12-pt. SAE sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), five 12-pt. SAE deep sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), sparkplug socket ($\frac{5}{16}$ in.), Powr-Eject ratchet, $\frac{3}{4}$ F to $\frac{1}{4}$ M adapter.

$\frac{1}{2}$ -IN. DRIVE: Nine 12-pt. SAE sockets ($\frac{1}{2}$ to 1 in.), sparkplug socket ($\frac{13}{16}$ in.), ratchet, 5-in. extension.

ALSO: Six combination wrenches ($\frac{3}{8}$ to $\frac{1}{2}$ in.), 6-in. slip joint plier, 4 and 6-in. sq. bar screwdrivers, 3-in. cabinet screwdriver, pocket screwdriver, #1 and #2 Phillips screwdrivers, 1 $\frac{1}{2}$ -in. stubby screwdriver, 8-pc. ignition wrench set, 20-pc. hex key set, hacksaw with 11 blades, 5-pc. punch and chisel set. Tool box. Sold sep. on pages 926, 927, and 62 of '80 Farm Book. Warranty, opp. pg.

84 A 6803 M—Ship. wt. 21 lbs. Sep. 162.13; tool set 139.99

SAVE \$15 on 27-pc. metric add-on set. **$\frac{1}{4}$ -IN. DRIVE:** Eight 6-pt. sockets (4 to 11mm), $\frac{3}{8}$ -IN. DRIVE: Nine 6-pt. sockets (9 to 15, 17, 19mm), $\frac{1}{2}$ -in. F to $\frac{1}{4}$ M adapter. ALSO: Eight combination wrenches (8 to 10mm, 12 to 14mm, 17 and 19mm) and tool box. Sold separately pages 926 and 927, and 62 of '80 Farm Book. Warranty, opp. pg.

84 A 6602—Ship. wt. 3 lbs. 6 oz. Sep. \$53.04; set 37.99

SAVE \$21 76-pc. Powr-Kraft tool set **97⁹⁹** SAE or metric

SAE SET. $\frac{1}{4}$ -IN. DRIVE: Nine 6-pt. sockets ($\frac{1}{8}$ to $\frac{1}{2}$ in.).

$\frac{3}{8}$ -IN. DRIVE: Two 6-pt. sockets ($\frac{1}{8}$, $\frac{7}{16}$ in.), one 6-pt. deep socket ($\frac{7}{16}$ in.), four 12-pt. sockets ($\frac{1}{2}$ to $1\frac{1}{2}$ in.), two 12-pt. deep sockets ($\frac{1}{2}$, $\frac{3}{4}$ in.), $\frac{5}{16}$ in. sparkplug socket, Powr-Eject ratchet, $\frac{3}{4}$ F to $\frac{1}{4}$ in.M reducing adapter, 5-in. extension bar.

$\frac{1}{2}$ -IN. DRIVE: Six 12 pt. sockets ($\frac{1}{2}$ to $\frac{3}{4}$ in.), ratchet, 2-in. extension bar.

ALSO: Four open end wrenches ($\frac{3}{8}$ to $\frac{1}{2}$ in.), 8-pc. ignition wrench set, 4-in. sq. bar screwdriver, 1 $\frac{1}{2}$ -in. rd. bar stubby screwdriver, #1 Phillips screwdriver, 13-pc. hex key set, hacksaw with 16 blades plus tool box. Ship. wt. 16 lbs. Warranty, opp. pg. 84 A 6766 M—Sep. 118.99, pgs. 926, 297, and 62 '80 Farm. Tool set 97.99

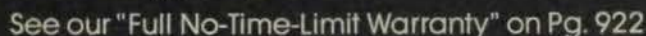
METRIC SET. $\frac{1}{4}$ -IN. DRIVE: Nine 6-pt. sockets (4 to 10mm, incl. 5.5, 6.3mm). **$\frac{3}{8}$ -IN. DRIVE:** Six 6-pt. sockets (10 to 14, 17mm), three 6-pt. deep sockets (10, 13, 14mm), $\frac{13}{16}$ -in. sparkplug set (fits 14mm), Powr-Eject ratchet, $\frac{3}{4}$ -in.F to $\frac{1}{4}$ in.M adapter and 5-in. extension bar.

$\frac{1}{2}$ -IN. DRIVE: Six 12-pt. sockets (14, 15, 17, 19, 22, 24mm), ratchet, 2-in. extension. ALSO: Four open end wrenches (8 to 15mm), 8-pc. ignition wrench set, 4-in. sq. bar screwdriver, 1 $\frac{1}{2}$ -in. rd. bar stubby screwdriver, #1 Phillips screwdriver, hacksaw with 16 blades, 13-pc. hex key set and tool box. Ship. wt. 15 lbs. Warranty, opp. pg. 84 A 6666 M—Sep. 119.42, pgs. 926, 927, and 62 '80 Farm. set 97.99

ALL WARDS 923



see pg. 926



Save \$17 over individual prices. And you get the 3/4-in. drive Powr-Eject ratchet with pushbutton release. Just press button and socket "pops" off.

3/4-IN. DRIVE: Nine 6-pt. SAE sockets (3/16 in. to 3/4 in., 7/16 and 1/2 in.)

¾-IN. DRIVE: Two 6-pt. SAE sockets (¾, 7/8). Five 12-pt. SAE sockets (½ to ¾). Sparkplug socket ¾ in.. Powr-Eject ratchet, adapter (¾ in. F x ¼ in. M) AND 5-in. extension.

ALSO INCLUDES: Four open end wrenches (8 sizes from 1/4 in. to 3/4 in.), 8-pc. ignition wrench set, 20-pc. hex key set, #1 phillips screwdriver, 4-in. square bar screwdriver, hacksaw frame with 11 blades and metal tool box.

Tools sold separately on pgs. 926 and 927 and pages 62, 63 of the 1980 Farm Book. Remember, there's a full no-time limit warranty on these tools, see page 922.

84 A 6748 M—Ship. wt. 13 lbs. 6 oz. Separately 85.48; set 67.99



41-PIECE SETS. Both include die stock, adjustable die stock, adjustable handle tap wrench, T-tap wrench, T-tap wrench with 3/4-in. sq. dr. screw pitch gauge, screwdriver and case.

SAE set. Taps and hexagon dies for the following sizes: 5/8-in. dies; 4-40 NC, 6-32 NC, 8-32 NC, 10-24 NC, 10-32 NF, 12-24 NC, 1 in. dies; 1/4-20 NC, 1/4-28 NF, 5/16-18 NC, 5/16-24 NF, 3/8-16 NC, 3/8-24 NF, 7/8-14 NC, 7/8-20 NF, 1/2-13 NC, 1/2-20 NF, 1/2-27 NPT. Mfr's. warranty.*

84 A 5540—Ship. wt. 5 lbs.	57.99
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METRIC set. Taps and hexagon dies for the following sizes: 1/8-in. dies: 3mm-0.60, 4mm-0.70, 4mm-0.75, 5mm-0.80, 5mm-0.90, 6mm-1.00. 1-in. dies: 7mm-1.00, 8mm-1.00, 8mm-1.25, 9mm-1.00, 9mm-1.25, 10mm-1.25, 10mm-1.50, 11mm-1.50, 12mm-1.25, 12mm-1.50, 12mm-1.75. Manufacturer's warranty.*

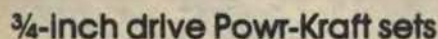
18-PIECE SAE TAP AND DIE SET. 8 plug taps: 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13. 8 1-in. hexagon dies in identical sizes. Offset handle tap wrench, hexagon die stock. Mfr's warranty *

84 A 5548—Ship. wt. 3 lbs. 8 oz.	32.99
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12-PC, SAE SET. Taps and 1-in. hexagon dies for the following sizes: 1/4-20 NC, 5/16-18 NC, 3/4-16 NC, 7/8-14 NC, 1-13 NC. Also adjustable die stock, tap wrench and case. Manufacturer's warranty.*

84 A 5542—Ship. wt. 3 lbs.	19.99
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*Write for free copy of manufacturer's warranty, see pg. 805.



SAVE 18.20. 24-pc. 3/4-in. drive SAE socket set: eighteen 12-pt. sockets (3/8, 7/8, 1, 1 1/8, 1 1/2, 1 3/4, 1 7/8, 1 5/8, 1 1/2, 1 3/4, 1 5/8, 1 7/8, 1 9/8, 1 11/8, 1 5/4, 1 13/8, 1 3/2 and 2-in.); 3, 8 and 16-in. extension bars, flex handle, sliding "T" handle, ratchet. See Warranty, pg. 922.

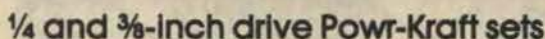
84 A 6825 A—Ship. wt. 57 lbs. separately 208.19; set 189.99

SAVE 19.23. 19-pt. 3/4-in. drive SAE socket set: fifteen 12-pt. sockets (1 1/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 1/2, and 2-in.); 8-in. and 16-in. extensions, reversible ratchet and metal box. See Warranty on page 922.

84 A 6716 A—Ship. wt. 34 lbs. separately 169.22; set 149.99

These socket sets covered by FULL-NO-TIME-LIMIT WARRANTY, page 922.

Sold separately in our 1980 Suburban, Farm & Garden Book, page 62.

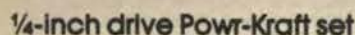


SAVE 20.53, 29-pc. ¼-½-in. drive SAE socket set. ¼-in. drive: eight 6-pt. sockets (¾, 7⁄8, 1, 1 1⁄8, 1 1⁄4, 1 3⁄8, 1 1⁄2, and 1 5⁄8-in.); two 8-pt. sockets (1 and 1 1⁄8-in.) and spinner handle. ½-in. drive: two 6-pt. sockets (¾ and 1-in.); seven 12-pt. sockets (1 1⁄8, 1 1⁄4, 1 3⁄8, 1 1⁄2, 1 5⁄8 and 1 3⁄4-in.); 6-pt. deep socket (1-in.); two 12-pt. deep sockets (1 1⁄8 and 1 1⁄4-in.); two sparkplug sockets (1 and 1 1⁄8-in.; fits 14mm sockets); 5-in. extension; ratchet; adaptor 1/8 x ¼-in. M and tool box. Warranty: one year. #22

84 A 6890—Ship. wt. 4 lbs. 6 oz. sep. 60.52; set 39.99

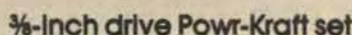
SAVE 19.74, 29-pc. 1/4-3/8-in. metric socket set. 1/4-in. drive; eight 6-pt. sockets (4 to 11 mm); 1/4-in. spinner handle. 3/8-in. drive; eleven 6-pt. sockets (7 to 15 mm; 17 and 19 mm); three 8-pt. deep sockets (10, 11 and 13 mm); two sparkplug sockets (5/8 and 13/16-in.; fits 14mm sockets); adapter

84 A 8890—Ship. wt. 4 lbs. 2 oz. see 59 73; eat 39 99



SAVE 13.74. 28-piece 1/4-in. drive SAE socket set: nine 8-pt. sockets (3/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4 and 7/8-in.); three 8-pt. sockets (1/4, 3/8 and 1/2-in.); nine 6-pt. deep sockets (3/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4 and 7/8-in.); ratchet, spinner handle, flex handle, 2-in. extension and 6-in. extension, universal joint and tool box. See Full No-time-limit Warranty, page 922.
B4 A 6628—Ship. wt. 3 lbs. Separately \$56.73; set \$42.99

924 WARDS ALL



SAVE 17.35. 28-pc. 3/4-in. SAE socket set: two 6-pt. sockets (3/4 and 7/8-in.); nine 12-pt. sockets (1/2, 5/8, 3/4, 7/8, 1 1/4, 1 1/2, 1 3/4 and 1 1/2-in.); two 6-pt. deep sockets (3/4 and 7/8-in.); five 12-pt. deep sockets (1/2, 5/8, 3/4, 7/8 and 1 1/4-in.); 3/4-in. sparkplug socket, ratchet, three extensions (2 1/2, 5, and 12-in.); flex handle, crossbar for flex handle, speeder handle, universal joint, tool box. Warranty, page 322.
84 A 6854—Ship wt. 10 lbs. 12 oz. est. 82.34; set 64.99

Journal of Management Studies, 19(1), 67-80.



SAVE 18.81. 22-piece 1/2-in. drive SAE socket set: thirteen 12-pt. sockets (7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/2 and 1 3/4-in.); 1/4-in. sparkplug socket (fits 14mm sockets), ratchet, spin disc, flex handle, speeder handle, 5 and 10-in. extensions, universal joint and tool box. See Warranty on page 922.

R4 A 8679 M—WI 13 lbs. 9 oz. Separately \$8.80, \$9.99

(Signature)

Small engine tool kit

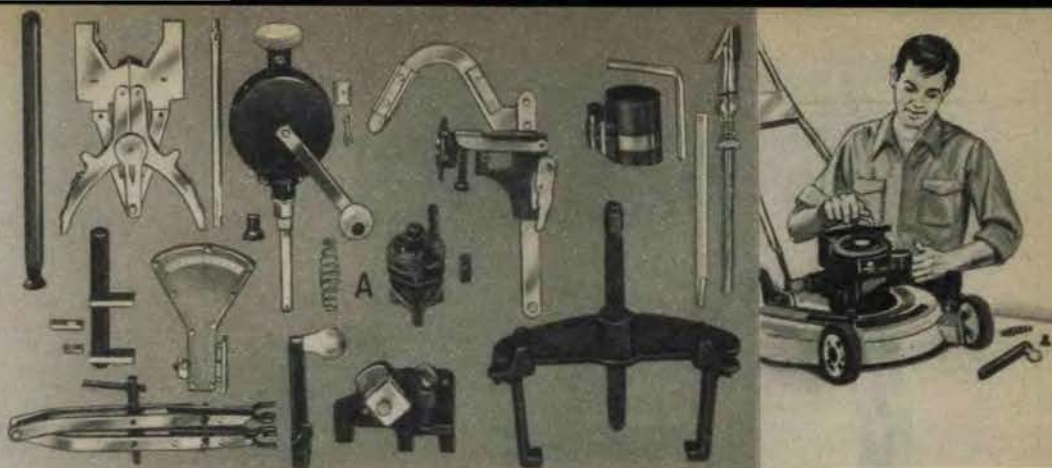
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A Do small jobs around the house yourself instead of paying expensive service prices.

USES: For repair and overhaul of air-cooled 2 and 4-cycle engines: motorcycles, snowmobiles, lawnmowers, etc.

INCLUDES: Valve spring compressor, cylinder gauge, piston ring expander, piston ring compressor, piston groove cleaner/cutter, cylinder ridge reamer, two valve grinders, valve refacer, gear puller, magnetic key inserter, cylinder hone.

84 A 7470—Wt. 12 lbs. 8 oz. 134.99



Automotive tool center

B 1/2-in. distributor wrench for Chrysler, Ford, Cadillac, and Mercury models.

84 A 7400—Wt. 10 oz. 5.49

3/4-in. wrench for Buick, Pontiac, Oldsmobile, Chevrolet, and AMC.

84 A 7401—Wt. 10 oz. 5.49

C Engine cylinder hone kit restores cylinder to perfect roundness. **FEATURES:** Accurate to within .0005, top to bottom. Has counter-balance spring, universal joint action. **RANGE:** 2 1/4-4 1/2 in. (68-114mm). **INCLUDES:** Wire brush, block dresser, 2 sets of 5-in. stones, box. Use 1/2-in. drill.

84 A 7426—Wt. 6 lbs. 12 oz. kit 89.99

Extra stones with guide blocks for (C). Wt. 6 oz. per set.

84 A 7427—Medium. set 9.49

84 A 7428—Coarse. set 9.49

D Piston ring expander helps install or remove piston rings. For 2 1/4-4 1/2-in. (70-107mm) rings.

84 A 7411—Ship. wt. 12 oz. 3.99

E Our best ridge reamer cannot be damaged by lead screw overrun. **CUTTER:** Tungsten carbide. **RANGE:** 3-5 in. (76-127mm).

CONSTRUCTION: Double holding screws for rigidity. Chrome plated.

84 A 7423—Wt. 3 lbs. 32.99

F Brake cylinder hone. Hone, deglaze through full range. **RANGE:** 1/4-2 1/2 in. (20-63mm).

84 A 7418—Ship. wt. 3 oz. 11.49

Set of 3 replacement stones for (F). 1 1/2 in. long. Medium grit.

84 A 7419—Ship. wt. 1 oz. set 3.49

G Adjustable glaze breaker. **FEATURES:** Adjustable to control pressure in all cylinder sizes. **RANGE:** 2-7 in. (51-177mm) capacity. For 1/4-in. drills. Flexible shaft. With 3 medium grit stones.

84 A 7421—Ship. wt. 14 oz. 19.99

Set of 3 replacement stones for (G). Medium grit. 4 in. long.

84 A 7422—Ship. wt. 4 oz. set 6.99

H Piston groove cleaner and cutter. **RANGE:** Fits pistons 2.8-5 in. (66-127mm) diameter. **CUTTER:** 5 sizes: 3/32, 1/8, 3/16, 1/4, 3/8 in.

84 A 7448—Wt. 1 lb. 2 oz. 9.99

I Quick-set ridge reamer. **CUTTER:** Floating tungsten carbide. **RANGE:** 2 1/4-4 1/2 in. (66-104mm).

84 A 7420—Wt. 1 lb. 7 oz. 14.99

J Piston ring compressor with self-locking pawl. **RANGE:** For rings 2 1/4-5 in. (54-127mm) diameter. Depth 3 1/2 in. Key included.

84 A 7412—Wt. 12 oz. 3.99

K Glaze breaker. Pad type, use with any electric drill. **RANGE:** 2.6-4.5 in. (66-114mm).

84 A 7424—Wt. 1 lb. 6 oz. 16.99

Set of 3 replacement abrasives for (K). Medium grit.

84 A 7425—Wt. 4 oz. set 4.49

L Reciprocating valve grinder with hand crank. **FEATURES:** Long and short locking stems, vacuum cup spring. Includes universal bit.

84 A 7435—Wt. 1 lb. 8 oz. 6.49

M Valve lifter. **FEATURES:** Offset and straight adjustable jaws for all valve-in-head engines. 7-in. opening.

84 A 7410—Wt. 2 lbs. 8 oz. 12.99

C-type valve spring compressor for all auto valve jobs. FEATURES: 2 sets of offset and straight adjustable jaws. Screw-type valve lifter. 10 1/2 x 10 1/2 in. opening.

84 A 7409—Wt. 10 lbs. 22.99

N Valve refacer with carbonyl cutter. Set 30° to 45°.

84 A 7408—Wt. 1 lb. 12 oz. 6.99

O, P 2 and 3-jaw grip-tite pullers. **USES:** For gears, bearings, couplings, pulleys, bushings. Order from table below:

Cat. no.	Spread	Reach	Ship. wt.	Price
(O) 2-jaw pullers				
84A7480	3 1/4 in.	2 1/2 in.	5 oz.	12.99
Reversible 2-jaw pullers				
84A7484	6 in.	3 3/4 in.	1 lb. 12 oz.	22.99
84A7485	9 in.	5 in.	4 lbs. 8 oz.	36.99
(P) 2-jaw/3-jaw				
84A7481	4 1/4 in.	3 1/2 in.	1 lb. 4 oz.	22.99
84A7482	7 in.	5 1/2 in.	3 lbs. 4 oz.	32.99
84A7483	11 in.	8 1/2 in.	7 lbs. 4 oz.	48.99

Q Universal hub puller. Straight-pull.

84 A 7434—Ship. wt. 10 lbs. 47.99

R Nut cracker splits corroded nuts up to 3/4 in. across. Turn with wrench.

84 A 7449—Wt. 12 oz. 9.99

S Tail pipe expander. 1 1/2-2 1/2 in.

84 A 7437—Wt. 2 lbs. 10 oz. 10.99

(T to W) Body repair dollies.

T Rail tool dolly. Ship. wt. 3 lbs.

84 A 7445. 9.49

U Double end dolly. Wt. 1 lb. 2 oz.

84 A 7444. 9.99

V Toe dolly. Wt. 2 lbs. 12 oz.

84 A 7447. 9.49

W Heel dolly. Wt. 2 lbs. 8 oz.

84 A 7446. 8.99

(X-8B) Body and fender repair hammers.

X Medium pick hammer. 7 in.

84 A 7438—Wt. 1 lb. 4 oz. 7.69

Y Dinging hammer.

84 A 7440—Wt. 1 lb. 6 oz. 7.69

Z Short pick hammer. 5 inches.

84 A 7439—Wt. 1 lb. 4 oz. 7.69

AA Pick hammer and chisel. 5 in.

84 A 7442—Wt. 1 lb. 4 oz. 7.69

BB Bumping hammer.

84 A 7441—Wt. 1 lb. 4 oz. 7.69

Body and fender repair kit. Includes (T) thru (BB) plus tool box no. 4380 (below). Separately 84.29.

84 A 7499 M—Wt. 21 lbs. 76.88

CC Body and fender dent puller.

84 A 7554—Wt. 2 lbs. 10 oz. 7.88

15-IN. STEEL TOOL BOX. Not shown.

84 A 4380 MX—Wt. 5 lbs. 7.88

DD Auto body repair kit includes everything you need to pull dents, fill holes, straighten and shape. Save on costly repairs, do it yourself.

INCL.: Fender flanging tool, dent puller, body filler, hardener, glazing putty, body hammer, sand paper, metal file, dolly, screening, and handy step-by-step instr. booklet.

84 A 7555—Wt. 8 lbs. 8 oz. 28.99





Powr-Kraft "power eject" 3/8-in. drive ratchet

The "power eject" ratchet not only releases your sockets . . . it "pops" sockets off when release button is depressed. Truly a one-hand operation at any angle. Has convenient spin disc and knurled handle.



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FEATURES: Wards "power eject" ratchet does more than other "quick-release" ratchets—it actually "pops" socket off ratchet when release button is depressed. Has reversible feature too. **CONSTRUCTION:** Drop forged and heat treated. Nickel-chrome plated for durability. Non-slip grip knurled handle. The design of this ratchet covered by patent No. 3815451. 45 teeth to engage socket with a slight turn . . . great for working in confined areas.

Sq. dr.	Lgth.	Cat. no.	Ship. wt.	Each
3/8 in.	7 in.	84 A 4815	11 oz.	13.99

Ratchet covered by Full no-time limit warranty, see pg. 922.



Powr-Kraft reversible ratchets

A Reversible ratchets. Hot forged chromed steel. Non-slip grip knurled handle.*

Sq. dr.	Lgth.	Cat. no.	Ship. wt.	Each
1/4 in.	4 1/2 in.	84 A 4758	4 oz.	7.99
3/8 in.	7 in.	84 A 4820	11 oz.	10.99
1/2 in.	10 in.	84 A 4830	1 lb. 5 oz.	13.99
3/4 in.	14 in.	84 A 4835	1 lb. 9 oz.	16.99
1 in.	18 1/2 in.	84 A 4877	4 lbs. 6 oz.	39.99

FLEX-HEAD RATCHETS. Chromed steel.*

84 A 4825—3/8-in. drive. Wt. 15 oz. 14.99

84 A 4855—1/2-in. drive. Wt. 1 lb. 11 oz. 21.99

*Covered by Wards Full No-Time Limit Warranty, pg. 922.

Torque Wrench



J 3/8-in. drive torque wrench.

FEATURES: Calibrated scale reading both metric and standard: 0-600 in.-lbs.; (metric: 0-700 centikilograms). Pivoted handle fixes hand position, assuring accurate readings. Chrome-plated tempered steel with nylon grip. Wt. 1 lb. 1 oz. 84 A 4960. 13.99

wt. 1 lb. 13 oz.

84 A 4970. 17.99

K Micro-adjusting 1/2-in. drive torque wrench.

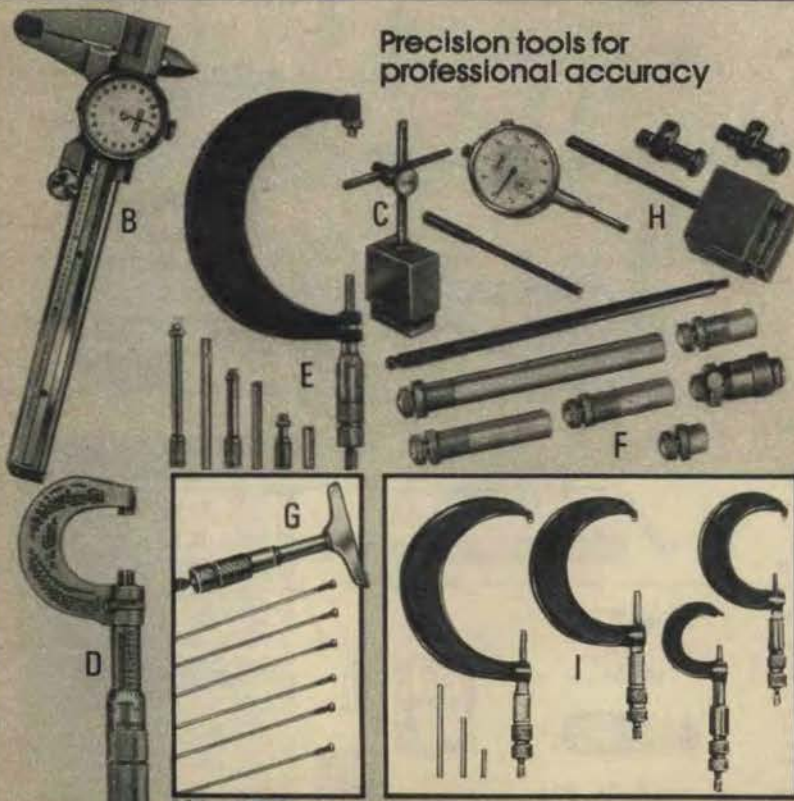
FEATURES: Reads both metric and standard. Dial the desired torque, from 30 to 250 ft.-lbs. (metric: 4.8 to 35.3 kilo-lbs.). Lock ring holds setting. Clicking sound tells when set torque is reached and handle moves freely a few degrees. Exceeds U.S. Government specification GGG-N-686d. Warranty below. Wt. 2 lbs. 15 oz. 84 A 4999. 52.99

1/2-IN. DR. TORQUE WRENCH.

FEATURES: 3 dial readings: calibrated 0-1800-in.-lbs.; 0-150 ft.-lbs.; metric: 0-21 meterkilograms. Graduated scale. Ship.

FULL 90 DAY WARRANTY—limited warranty (on torque wrench (K)). If this wrench fails due to a defect or requires recalibration within 90 days from date of purchase, Wards will correct the defect and/or recalibrate it free of charge for parts or labor. For an additional nine months Wards will repair any defects free of charge for parts or labor. Recalibration, except in connection with defect correction, is not included during this period. For Warranty service contact any Montgomery Ward branch. Evidence of date of purchase is required. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Precision tools for professional accuracy



B Dial calipers for inside, outside depth measurements. .001-in. graduations. Chromed stainless steel. With case. From Japan 6-in. capacity. 84 A 5053—Ship. wt. 1 lb. 1 oz. 57.99

C Magnetic base. Powerful and compact instrument will grip flat or curved steel surfaces with sixty-pound pull. Base 2x2x1 1/4-in. Post 1/4x4-in. Rod 1/4x1/4x4-in. 84 A 5080—Ship. wt. 1 lb. 2 oz. 18.99

D Micrometer. Graduated 1/10,000-in. I-beam frame. One-hand operation. Decimal equivalent on chromed, full-finished frame. 0 to 1 in. 84 A 5058—Ship. wt. 9 oz. 36.99

E 4 micrometers in one. 3 anvil extensions, range of 0 to 4. Graduated 1/1000-in. Three test gauges. 84 A 5060—Case. Ship. wt. 3 lbs. 1 oz. 87.99

F 7-pc. inside micrometer set. 1/1000 in. 5 anvil extensions in fitted steel case. Opens 1 1/2 to 8-in. 2 84 A 5064—State size number: No. 8 or 12. No. 8 (7pc. set). Ship. wt. 1 lb. 5 oz. set 54.99 No. 12 (10-pc., 8 extensions 1 1/2 to 12-in.). Ship. wt. 1 lb. 8 oz. set 67.99

G 8-pc. depth micrometer set. 6 rods; 0 to 6 inches. 1/1000 graduations. Includes case. 84 A 5073—Ship. wt. 2 lbs. 2 oz. set 63.99

H One-inch range dial indicator set. With 2 1/2-in. diameter indicator, 2-in. magnetic base and rod, universal rod connector, clamp, fitted case. 84 A 5071—Ship. wt. 2 lbs. 7 oz. set 49.99

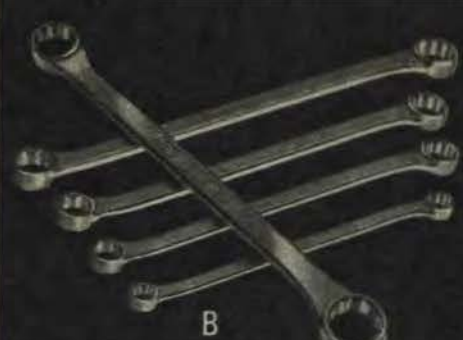
I 8-pc. micrometer set. Graduated 1/1,000 in. Sizes 0-1, 1-2, 2-3, 3-4-in. Standards. Chromed barrel, forged steel frame. 84 A 5075—Ship. wt. 4 lbs. 9 oz. case set 169.99

Individual micrometers. 1/1,000 graduations.

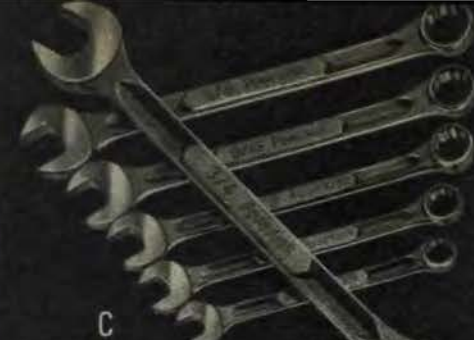
Cat. no.	Range	Ship. wt.	Price
84 A 5093	0 to 1 in.	8 oz.	28.99
84 A 5094	1 to 2 in.	11 oz.	38.99
84 A 5095	2 to 3 in.	15 oz.	44.99



A
SAE or metric
open-end wrench set



B
Box-end
wrench set



C
SAE or metric
combination wrench set

Power-Kraft Wrench sets

- Covered by our Full No-Time Limit Warranty (see pg. 922)
- Drop-forged and heat treated for strength and durability

A Open-end wrench sets. Offset jaws insure tighter grip. Nickel chrome-plated.

6-pc. SAE set has sizes $\frac{1}{2} \times \frac{1}{8}$, $\frac{1}{2} \times \frac{1}{4}$, $\frac{1}{2} \times \frac{3}{8}$, $\frac{1}{2} \times \frac{1}{2}$, $\frac{1}{2} \times \frac{3}{4}$, and $\frac{1}{2} \times 1$ -in. Pouch included.

84 A 4955—Ship. wt. 2 lbs. 4 oz. set 18.99

6-pc. metric set has sizes 8x9mm to 18x19mm.

84 A 4964—Pouch. Wt. 1 lb. 3 oz. set 18.99

10-pc. SAE set has sizes $\frac{1}{2} \times \frac{1}{8}$, $\frac{3}{8} \times \frac{1}{8}$, $\frac{1}{2} \times \frac{1}{8}$, $\frac{1}{2} \times \frac{1}{4}$, $\frac{1}{2} \times \frac{3}{8}$, $\frac{1}{2} \times \frac{1}{2}$, $\frac{1}{2} \times \frac{3}{4}$, $\frac{1}{2} \times 1$, and $1 \frac{1}{2} \times 1 \frac{1}{2}$ -in. Pouch included.

84 A 4956—Ship. wt. 4 lbs. 7 oz. set 36.99

B 5-pc. box-end, wrench set has sizes $\frac{3}{8} \times \frac{1}{8}$, $\frac{1}{2} \times \frac{1}{8}$, $\frac{1}{2} \times \frac{1}{4}$, $\frac{1}{2} \times \frac{3}{8}$, $\frac{1}{2} \times \frac{1}{2}$ -in. Box-end wrenches provide max. leverage. Openings are 12 pt. Pouch.

84 A 4959—Ship. wt. 4 lbs. 8 oz. set 19.99

C Combination box-end, open-end wrench sets. 6-pt. openings on sizes to $\frac{1}{2}$ -in. or 11mm. 12-pt. openings on larger sizes. All sets include pouch or roll. 6-pt. SAE set has sizes $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1 \frac{1}{2}$, $1 \frac{3}{4}$ -in. Pouch.

84 A 4931—Ship. wt. 1 lb. 2 oz. 16.99

6-pc. metric set: sizes 9, 10, 12, 13, 14, 17mm.

84 A 4961—Pouch. Ship. wt. 14 oz. set 16.99

10-pc. SAE set has sizes $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1 \frac{1}{2}$, $1 \frac{3}{4}$, 2 , $2 \frac{1}{2}$, 3 , $3 \frac{1}{2}$ -in. Pouch included.

$\frac{1}{2}$, $\frac{3}{4}$, and $1 \frac{1}{2}$ -in. Pouch included.

84 A 4934—Ship. wt. 3 lbs. 8 oz. set 34.99

10-pc. metric set has sizes 7, 8, 9, 10, 12, 13, 14, 15, 17, and 19mm. Pouch included.

84 A 4965—Ship. wt. 1 lb. 8 oz. set 32.99

14-pc. SAE set has sizes $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1 \frac{1}{2}$, $1 \frac{3}{4}$, 2 , $2 \frac{1}{2}$, 3 , $3 \frac{1}{2}$, 4 , $4 \frac{1}{2}$, 5 , $5 \frac{1}{2}$ -in. Pouch included.

84 A 4933—Ship. wt. 9 lbs. 4 oz. Roll. set 64.99

14-pc. metric set has sizes 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22, and 24mm Roll.

84 A 4942—Ship. wt. 3 lbs. 5 oz. 48.99

Automotive pliers... designed for specific automotive use.

D Lock ring pliers. Ship. wt. 8 oz.

84 A 7454..... ea. 5.29

E Water pump pliers 10-in. Wt. 14 oz.

84 A 4687..... 6.29

F Battery pliers. ORDERING: State size number 07. Ship. Wt. 5 oz.

Z 84 A 4653..... ea. 4.29

Convenient Impact driver set

G Just strike top of tool with hammer. Each impact turns bit up to 20°. Reversible.

USES: Use on nuts, screws and bolts anywhere without electric or air power. Includes: $\frac{1}{2}$ -in. square drive impact tool, bit holder adapter with Nos. 2 and 4 Phillips and two straight slotted bits ($\frac{1}{2}$ and $\frac{3}{8}$ -in.). Use with any $\frac{1}{2}$ -in. drive impact socket.

84 A 6760—Wt. 1 lb. 15 oz. 13.99

REPLACEMENT BITS for impact driver. Set of 4.

84 A 6761—Wt. 2 oz. set 4.79

Versatile 13-pc. Screwball® kit

H Faster and easier to use than conventional screwdrivers and ratchets. 3-position ratchet action. Unique shape fits solidly in palm of your hand.

INCLUDES: 3 double-ended combination bits with nos. 1, 2, 3 Phillips, and nos. 4, 6, 10 slotted heads. 7-pc. SAE socket set has sizes $\frac{1}{8}$ to $\frac{1}{2}$ -in. plus adapter and vinyl storage tray. Features heat treated steel gears, chrome-plated steel shank. Ship. wt. 14 oz.

84 A 4634..... 16.99

Power-Kraft Home and Automotive tools

I 12-pc. screwdriver set. 4 Phillips (No. 2-1/4-in. stubby; No. 0-2-in.; No. 1-3-in.; No. 2-4-in.) 2 cabinet (3-in. and 6-in.) pocket, offset, 1 1/4-in. stubby, reg. sq. bar (4-in. and 6-in.), RD bar 4-in.

84 A 4630—Ship. wt. 2 lbs. 4 oz. set 19.99

7-PC. SET. 5 slotted, 2 Phillips.

84 A 4631—Ship. wt. 1 lb. 8 oz. set 12.99

J Adjustable cushion-grip wrenches of drop-forged alloy steel have large knurls for thumb-flick adjustments. Precision-machined, hardened jaws.

Z 84 A 4704—State length. Made in Japan.

Length	Opens to	Ship. wt.	Each
6 in.	$\frac{1}{2}$ in.	4 oz.	5.89
8 in.	$\frac{3}{4}$ in.	9 oz.	6.89
10 in.	$1 \frac{1}{4}$ in.	13 oz.	8.29
12 in.	$1 \frac{1}{2}$ in.	1 lb. 8 oz.	11.49
15 in.	$1 \frac{3}{4}$ in.	3 lbs. 2 oz.	18.99

K 7-pc. ratchet box wrench set from $\frac{1}{4}$ to $\frac{3}{4}$ -in. Above $\frac{1}{2}$ -in.: 12-pt. Other: 6 pt. Plastic pouch.

84 A 4739—Ship. wt. 3 lbs. 12 oz. set 28.99

7-PC. METRIC SET. 7-8, 9-10, 11-12, 13-14, 15-17, 18-19, 21-22mm.

84 A 4735—Ship. wt. 3 lbs. 8 oz. 28.99

L 7-pc. nut driver set ranges in size from $\frac{1}{8}$ to $\frac{1}{2}$ -in. 84 A 4770—Ship. wt. 2 lbs. set 16.99

M Power-Kraft locking pliers have precision-milled teeth to provide vise-like strength. Can be used as pliers, adjustable wrench, clamp, locking wrench, gripping tool, pipe wrench, etc. From Japan. State length wanted. Order from table, top of next column.

Lgth.	Type jaw	Cap.	Cat. no.	Ship. wt.	Ea.
7 in.	Curved	$1 \frac{1}{2}$ in.	Z 84 A 4674	12 oz.	4.99
10 in.	Curved	$1 \frac{1}{2}$ in.		1 lb.	5.49

N Automatic-return screwdriver is 17-in. long. Includes $\frac{1}{32}$, $\frac{1}{16}$, $\frac{1}{8}$ -in. bits. From Japan.

84 A 4644—Ship. wt. 1 lb. 14.99

O 5-pc. ignition wrench set. Includes $4 \frac{1}{2}$ -in. ignition pliers, 4 open-end wrenches, sizes $\frac{7}{32} \times \frac{1}{4}$, $\frac{1}{2} \times \frac{1}{4}$, $\frac{3}{4} \times \frac{1}{4}$, $1 \times \frac{1}{4}$ -in. Includes pouch.

84 A 4709—Ship. wt. 4 oz. set 7.99

P 8-pc. standard combination ignition wrench set. Sizes from $\frac{1}{32} \times \frac{1}{4}$ to $\frac{3}{4} \times \frac{1}{4}$ -in.

84 A 4710—Ship. wt. 4 oz. set 2.69

8-PC. METRIC COMBINATION ignition wrench set. 84 A 4720—Sizes 4mm to 11mm. Wt. 4 oz. 2.69

Q Standard 20-pc. hex key set. Sizes from .028 to P-in. long and short arm keys. Includes pouch.

84 A 4726—Ship. wt. 9 oz. set 3.99

20-PC. METRIC STANDARD SET. 2.5 to 6mm .035 to $\frac{1}{8}$ in. Plastic pouch.

84 A 4727—Ship. wt. 13 oz. set 3.99

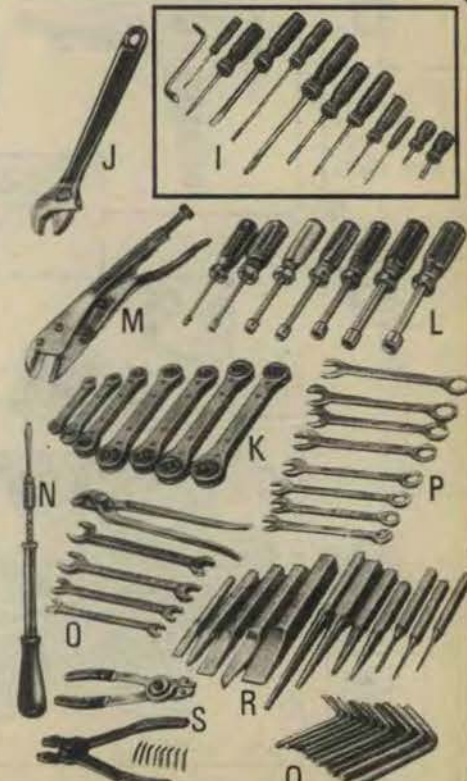
R 12-pc. punch and chisel set. CHISELS: $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ -in. cold, $\frac{1}{4}$ -in. diamond point, and $\frac{1}{4}$ -in. cape.

PUNCHES: $\frac{3}{8}$ -in. center, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ -in. pin. $\frac{1}{8}$, $\frac{1}{4}$ -in. solid, $\frac{3}{8}$ -in. taper. Pouch.

84 A 4596—Wt. 2 lbs. 11 oz. set 18.99

S Snap ring plier set. 2 pliers, 4 pairs of tips.

84 A 4660—Ship. wt. 12 oz. set 11.49



Powr-Kraft 1-HP* router

Our most powerful router features rack and pinion vertical adjustment for precision work, and electronically balanced construction for minimum vibration and long life.



79⁴⁹

A USES: Routs, grooves, trims, decorates in wood, plastic, or composition. For greater versatility see accessories below.

MOTOR: 1-HP*, 5-amp, produces 23,000 no-load RPM. Permanently lubricated ball and sleeve bearings. Shunted brush system guards against brush failure due to short-term overloading. Directed air flow exhaust helps clean work area.

DEPTH GAUGE: Rack and pinion vertical depth adjustment; precision calibrations in 1/64-inch.

FEATURES: Has large positive control handles for full hand grip. Unit stands on head for easy bit

changing and depth adjustment. Heavy-duty toggle switch with protective guard molded into housing prevents accidental starts. Brushes easily accessible from exterior of router. 120V AC, 10-ft. cord. UL listed. See router guide (I) sold below.

INCLUDES: 1/4-inch collet-type chuck and router manual with complete instructions.

WARRANTY: See Wards Full One Year Warranty on page 931.

84 A 90004—Ship. wt. 7 lbs. 12 oz. 79.49

SAVE \$8 when you buy router with guide (I).

84 A 91722 L—Wt. 8 lbs. 12 oz. both 81.44

Our Good
router
34⁴⁹



Our
Better
router
59⁴⁹

B Powr-Kraft 1/4-HP* router. 5-amp motor produces 30,000 no-load RPM. Permanently lubricated ball bearings.

DEPTH GAUGE: Vertical adjust calibrated in 1/64-in. **FEATURES:** Slide-action switch for continuous two-hand control. Directed air exhaust cleans work area. Positive control handles. 120V AC. 8-ft. cord. UL listed. See router guide (I) below.

INCLUDES: 1/4-in. collet-type chuck, wrench. **WARRANTY:** See Wards Warranty on page 931.

84 A 90003—Ship. wt. 4 lbs. 12 oz. 59.49

C Powr-Kraft 1/4-HP* router similar to (B) but with 1/2-HP*, 4.5 amp motor. See Wards Warranty, pg. 931. See router guide (I) below.

84 A 90002—Ship. wt. 4 lbs. 12 oz. 34.49

Just some of
the jobs you
can tackle
with our router
and router
accessories.



Cabinet details



Personal signs



Edge or groove



Dovetail joints

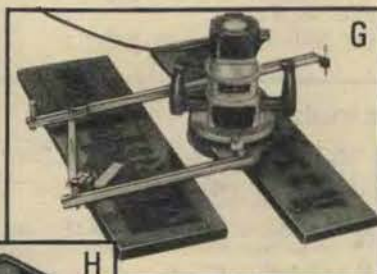
Take pride in
your finished
product and
save money
too!



End table



E



G

E Deluxe router table with dust collection system. Great for decorative edging, frames.

FEATURES: Dust collection system which can be attached to any vacuum. Equipped with shaper/jointer-type fence and guard for precision work. Has protractor for cutoff/mitering work. Can be bolted to workbench. 17x13x10 in. high.

84 A 90308 M—Ship. wt. 14 lbs. 39.99

F Router bench table similar to (E) but without dust collection system.

84 A 90307 M—Ship. wt. 14 lbs. 37.99

G Sign maker pantograph reproduces characters, drawings in 40%, 50% or 60% original size.

INCLUDES: Old English and Modern letter/number sets, plus 4 drawings. Comes unassembled.

84 A 90322—Ship. wt. 3 lbs. 3 oz. 19.99

H Lettering template set mortises 2 1/2-in. high characters. Use with bushing #90318 sold on opposite page.

INCLUDES: Alphabet, nine numbers and five punctuation marks.

84 A 8185—Ship. wt. 2 lbs. 3 oz. 12.99

REPLACEMENT LETTERS, NUMBERS for set (H).

84 A 90306—Ship. wt. 1 lb. 14 oz. 6.99

I Router guide for accurate straight cuts, parallel grooves, following curved edges. Fits all routers in this book.

84 A 90325—Ship. wt. 1 lb. 9.99

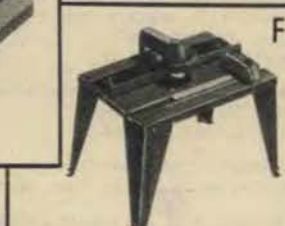
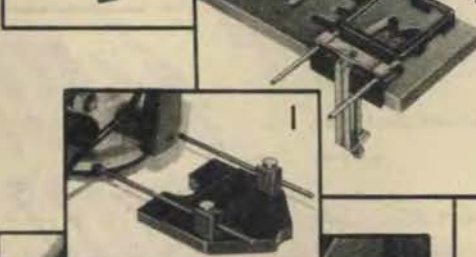
J Dovetail fixture for making drawers ... provides spacing and depth accuracy for flush and rabbeted dovetail joints. Use on stock up to 12-in. wide, 1/8 to 1-in. thick. Use with guide bushing #90323 sold on opp. pg. and bit #8590 also sold on opp. pg.

84 A 90223—Ship. wt. 8 lbs. 69.99

K "Trim Ease" stabilizes workpiece for precise edge and groove cuts. Locks 0° to 45° right or left. Mount on workbench. For work up to 2-inch high, 8-inch wide, any length.

84 A 90221—Ship. wt. 7 lbs. 7 oz. 29.99

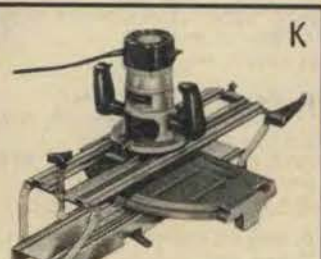
*Maximum developed motor horsepower.



F



J



K

928 WARDS ALL



Black & Decker 1 1/4-HP* TRADE router

D MOTOR: 1 1/4-HP (max. developed motor HP), 5.5 amp. Produces 23,000 no-load RPM. Permanently lubricated ball bearing construction. Shunted brush system guards against brush failure due to short-term overloading.

DEPTH GAUGE: Vertical depth adjustment, precision calibrated in 1/4 inch.

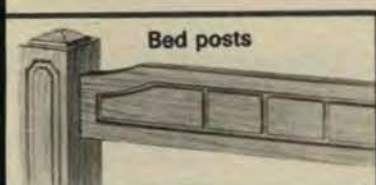
FEATURES: Large, positive control handles. 10-ft. cord. 120V AC. UL listed.

INCLUDES: 1/4-in. Collet-type chuck, non-mar polymer subbase, 2 wrenches, router manual. Order router guide (I) on opposite page.

WARRANTY: Write for free copy of Manufacturer's Warranty, see page 605.

84 A 90007—Ship. wt. 7 lbs. 10 oz. 89.49

*Maximum developed motor horsepower.



Bed posts

L Three-section template and hinge-butt template helps guide router to mortise doors and jambs quickly and accurately.

SPECS: Reproduces 2 to 5-inch long square or round hinges on doors 7 ft. high and 3/4 to 2 1/2-inch thick. Adjustable for cutting 2 or 3 hinge mortises. Hinge-butt template provides for precise hinge-butts. Kit also includes two 3 1/2 and 4-in. single templates. Use with bushing #90318 sold below and bit #8598 sold at right.

84 A 90319—Ship. wt. 11 lbs. 49.99

M Set of two hinge-butt templates as described in (L). Use with guide bushing #90318 sold below.

84 A 90321—Ship. wt. 1 lb. 5.99

N Template bushing sets. Include bushing and fastener.

BUSHING for (H), (L), and (M).

84 A 90318—Ship. wt. 2 oz. 5.79

BUSHING for (J).

84 A 90323—Ship. wt. 2 oz. 5.79

TEMPLATE BUSHING SETS for Wards routers sold in previous catalogs.

ORDERING: Ship. wt. each 2 oz.

Template Bushing sets	For router number:	Bushing catalog no.	Price each
For lettering set (H) shown on opposite pg.	84-8182 84-8177 84-8542 84-8180	84 A 90316 84 A 90311 84 A 90311 84 A 90316	6.99 6.99 6.99 6.99
For dovetail fixture (J) shown opp. page	84-8182 84-8177 84-8542 84-8180	84 A 90316 84 A 90312 84 A 90312 84 A 90316	6.99 6.99 6.99 6.99
For hinge-butt template (L) shown opp. page	84-8182 84-8177 84-8542 84-8180	84 A 90314 84 A 90311 84 A 90311 84 A 90314	6.99 6.99 6.99 6.99

Router bit sets SAVE 20%

on bit sets when purchased with router bit case shown at right



FIVE-PIECE ROUTER BIT SET—1/4, 1/2, 3/4, 1-in. straight bits, 1/4-in. veining, 1/2-in. plain-tip hinge mortising, plastic pouch. 1/4-in. shanks.

84 A 8595 D—Wt. 4 oz. 14.99; with case* 11.99

SIX-PIECE ROUTER BIT SET—1/4, 1/2, 3/4, 1-in. straight bits, 1/4-in. wide V-groove, 1/2-in. round over, 3/4-in. rabbeting, 1/2-in. Roman ogee, plastic pouch.

84 A 8179 D—Wt. 5 oz. 32.99; with case* 26.39

SEVEN-PIECE CARBIDE SET . . . lasts longer than regular bits—1/4, 3/8, 1/2, 3/4, and 1-in. straight bits, V-groove, mortising surface.

84 A 90214 D—Wt. 6 lbs. 52.99; with case* 42.39

EIGHT-PIECE ROUTER BIT SET—1/4, 1/2, 3/4, 1-in. straight bits, 1/4-in. dovetail, 1/4-in. core box, 3/4-in. cove, 45° chamfer, 1/4-in. round over, 1/4-in. beading.

84 A 90300 D—Wt. 6 oz. 44.99; with case* 35.99

EIGHT-PIECE CARBIDE EDGE FORM SET—1/4, 1/2, 3/4, 1-in. round over/beading, 1/2-in. cove, 45° chamfer, 1/2-in. Roman ogee, 3/4-in. rabbeting, and two #90270 arbor systems.

84 A 90217 D—Wt. 6 lbs. 89.99; with case* 71.99

18-PIECE ROUTER BIT SET—1/4, 3/8, 1/2, 3/4, 1-in. straight bits, 1/4-in. round over, 1/4 and 3/8-in. beading, 1/4-in. rabbeting, 1/2-in. Roman ogee, 45° chamfer, 1/4-in. cove, V-groove, 1/4-in. veining, 1/2-in. core box.

84 A 90212 D—Wt. 9 oz. 74.99; with case* 59.99

BIT CASE has individual slots for twenty-five 1/4-in., six 1/2-in. shank bits, 2 template guides.

84 A 90222 G—Ship. wt. 1 lb. 8 oz. 9.99

*20% OFF price when bits are purchased with case.

Single router bits SAVE 20%

when you buy 3 or more carbide bits

O-CC Average ship. wt. each 2 oz. Carbide bits last an average of 10 times longer under normal work conditions.

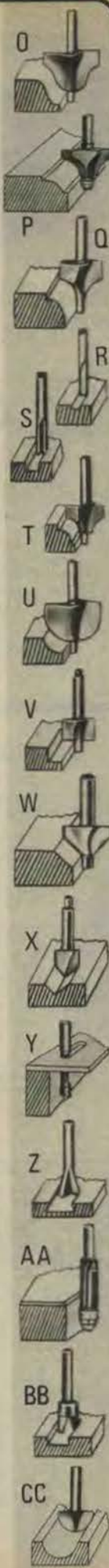
Bit	Catalog number	Size type	Each	20% off
(O) Roman ogee	84A8592 84A90213 84A90263D**	1/4 Steel 1/4 Steel 1/4 Carbide	7.49 8.99 14.49	11.59
(P) Round over beading	84A90256D** 84A90257D**	1/4 Carbide 1/4 Carbide	13.49 13.99	10.79 11.19
(Q) Round over	84A90207 84A8588 84A90209	1/4 Steel 1/4 Steel 1/4 Steel	6.49 6.99 7.99	
(R) Veining	84A8586	1/4 Steel	2.79	
(S) Straight	84A90201 84A90202 84A90203 84A90204 84A90205 84A90206 84A85750 84A90251D 84A90252D 84A90253D 84A90254D	1/4 Steel 1/4 Steel 1/4 Steel 1/4 Steel 1/4 Steel 1/4 Steel 1/4 Carbide 1/4 Carbide 1/4 Carbide 1/4 Carbide 1/4 Carbide	2.19 2.39 3.19 3.79 4.99 5.99 5.99 6.49 6.99 7.99 7.99	4.79 5.19 5.59 7.59
(T) Beading	84A8587 84A90211	1/4 Steel 1/4 Steel	6.49 7.49	
(U) Cove	84A8589 84A90215 84A90259D**	1/4 Steel 1/4 Steel 1/4 Carbide	6.79 7.49 13.99	11.19
(V) Rabbeting	84A8591 84A90262D**	1/4 Steel 1/4 Carbide	7.99 13.99	11.19
(W) Chamfer	84A8583 84A90261D**	1/4 Steel 1/4 Carbide	6.79 13.99	11.19
(X) V-groove	84A8573 84A90265D	1/4 Steel 1/4 Carbide	4.99 9.49	7.59
(Y) Com. pilot panel	84A8572 84A90268D	1/4 Steel 1/4 Carbide	3.49 6.49	5.19
(Z) Dovetail	84A8590 84A90218	1/4 Steel 1/4 Steel	5.39 4.89	
(AA) Laminated trim	84A90267D1 84A90268D1	90° Carbide 10° Carbide	8.49 8.49	6.79 6.79
(BB) Hinge mortising	84A8598 84A8574D	1/4 Steel 1/4 Carbide	3.49 7.49	5.99
(CC) Core box	84A8597 84A90216	1/4 Steel 1/4 Steel	4.29 3.79	

**Requires arbor system listed here—1/4-in. shank, 2 ball bearings (1/4, 1/2-in. diam.), dust shield, lock nut.

84 A 90270—Ship. wt. 2 oz. arbor system 7.99

†Requires arbor system listed here—1/2-in. shank, ball bearing (1/2-in. diam.), dust shield, lock nut.

84 A 90271—Ship. wt. 1 oz. arbor system 4.49



DD \$119



EE \$99



FF 59.49

Power planes for fast professional results

DD Black & Decker TRADE power plane planes wood to machined surface smoothness.

MOTOR: 1/2 HP (max. motor output), 3.7 amp. Produces 15,000 no-load RPM.

HOUSING/CUTTER: Long, sturdy aluminum die-cast shoe for stable operation. Quick, easy blade replacement. Large 3 1/4-in. wide planing width. Planing depth up to 1/4 in.; 1/8-in. rabbeting depth. Chamfers with ease.

INCLUDES: Side plate, rabbeting plate, blade adjustment gauge, and "T"-type wrench. UL listed.

SPECS: 10-ft. cord. 120V, AC. Double insulated. Write for a free copy of Manufacturer's Warranty, see page 605.

84 A 85024—Wt. 9 lbs. 2 oz. . . . 119.00

EE Commercial-duty power plane.

MOTOR, BEARINGS: 1/2-HP (maximum developed motor output) 3.7 amp. motor produces 15,000 no-load RPM. Burnout protected. Brushes accessible for checking, replacement.

HOUSING, CUTTER: Aluminum base, polycarbonate housing. Clog-free chip chute deflects shavings away from operator and work. Twin high-speed blades of tool steel have extra wide 3 1/4 in. cutting width. Cutting depth up to 1/4 in. Rabbet cuts 1/8 in. deep, 1/2 in. wide. Blade removable for sharpening. Includes 90° door bevel fence guide.

SPECS: UL listed. 6-ft. cord. 115V AC. From Japan. Wards Warranty, pg. 931.

84 A 85001—Wt. 9 lbs. 14 oz. . . . 99.00

FF Standard-duty power plane.

MOTOR, BEARINGS: 4-amp. motor produces 14,500 RPM.

HOUSING, CUTTER: Full 16-in. cast aluminum shoe. Mitre guide plate adjusts to 45. Twin cutter blades cut to 2 1/2 in. wide path up to 1/8 in. deep.

SPECS: UL listed. 120V AC. See Wards Warranty pg. 931.

84 A 85005—Ship. wt. 8 lbs. . . . 59.49

ALL 2 WARDS 929

Why drive? Shop by Phone . . .
see pages 600, 601.

Powr-Kraft drills 1/2 and 3/8-inch chuck

Equipped with powerful, heavy-duty .40-HP* motor for extra torque, plus forward-and-reverse infinite speed lock which lets you match RPM's to the job.



59⁴⁹
1/2-inch

49⁴⁹
3/8-inch

A 1/2-inch chuck variable-speed drill with forward-and-reverse infinite speed lock. Reversible for removing jammed bits and screws. Includes auxiliary handle. See Wards Full One Year Warranty, opp. pg. SPECS: .40-HP* 3.3 amp motor with triple gear reduction. 0-550 no-load RPM's. Permanently lubricated multiple ball thrust and sleeve bearings are metal mounted. Electronically-balanced armatures. Positive brush shut-off system. Metal gear case. 120V AC. UL listed. Double insulated. 6-ft. cord.
CAPACITY: 1/2-inch steel, 1-inch hardwood.
84 A 82515—Ship. wt. 4 lbs. 8 oz. 59.49

SAVE \$20 when you buy drill (A) with 21-piece bit set (#82761) on opposite page. Separately 94.48.
84 A 91743 L—Ship. wt. 6 lbs. 2 oz. both 74.44

OUR BEST 3/8-INCH DRILL like (A) but with double-gear reduction, 0-1200 no-load RPM, multiple ball thrust, roller and sleeve bearings, 3/8-in. steel and 3/4-in. hardwood capacity.
84 A 82009—Ship. wt. 4 lbs. 2 oz. 49.49

SAVE \$15 on #82009 drill and bit set (#82734).
84 A 91742 L—Wt. 4 lbs. 13 oz. Sep. 69.48; both 54.44



B
Our better
1/2-in. and
3/8-in.
drills



D
Wards lowest
priced drill

B-C These Powr-Kraft drills are double-insulated, have permanently lubricated bearings, electronically-balanced armatures, positive brush shut-off systems and metal gear cases. All have Full One Year Warranty (see opp. page) and are UL listed for 120V AC.

(B) 1/2-in. reversible drill has 1/2-HP*, 3 amp motor, 550 no-load RPM. Auxiliary handle.
CAPACITY: 1/2-in. steel, 1-in. hardwood.
84 A 82513—Ship. wt. 4 lbs. 8 oz. 39.49

(C) 3/8-in. variable-speed, reversible drill. 1/2-HP*, 3 amp motor. Does 0-2, 500 no-load RPM.
CAPACITY: 3/8-in. steel, 3/4-in. hardwood.
84 A 82008—Ship. wt. 3 lbs. 4 oz. 29.49

3/8-INCH DRILL with 2.8 amp motor, single speed 1,200 no-load RPM. 10-in. cord.
84 A 82006—Ship. wt. 4 lbs. 16.49

(D) 1/4-in. single speed drill. 2.8 amp. 10-in. cord.
84 A 82005—Ship. wt. 3 lbs. 4 oz. 9.97



hammer
drill
E
59⁹⁹

F
3-in-1
drill
59⁹⁹

Multi-action hammer drills

E 1/2-in. variable-speed hammer drill quickly converts from straight rotary to percussive drilling. Reversible. See Wards Full One Year Warranty, opp. pg. SPECS: .40-HP*, 3 amp motor does 0-2,900 no-load RPM (0-34,800 blow/min.). Permanently lubricated multiple ball thrust and sleeve bearings. 120V AC.
84 A 82017—Ship. wt. 4 lbs. 4 oz. 59.99

3/4-INCH HAMMER DRILL like (E) but not variable-speed or reversible. 1/2-HP* with sleeve bearings.
84 A 82011—Ship. wt. 4 lbs. 49.99

F 3/4-in. 3-in-1 drill... it's a drill, hammer drill, or chisel with twist of the chuck. Variable speed and reversible. See Wards Warranty, opposite pg.

SPECS: 1/2-HP*, 3.2 amp motor with double gear reduction. Does 0-800 no-load RPM. Ball, sleeve bearings. Metal gear case. Double insulated. 120V AC.
84 A 4508—Ship. wt. 4 lbs. 8 oz. 59.99

1/2-INCH 3-IN-1 like (F). 1/2-HP*, 3.4 amp motor.
84 A 82500—Ship. wt. 4 lbs. 12 oz. 69.99

3-IN-1 TOOL DELUXE ACCESSORY KIT for #4508 and #82500 includes 10-piece drill bit set (1/4 to 3/4-in.), 4-pc. screwdriver bit set, 6-pc. socket set, 2-in. grinding wheel, 3-in. wire wheel, 1/4-in. masonry drill bit, sanding/polishing kit, 1/2-in. wood chisel, and 1 1/4-in. scraper.
84 A 83200—Ship. wt. 2 lbs. 8 oz. 24.99

3-in-1 tool accessories

1/2-in. wood chisel.
84 A 8081—Wt. 3 oz. 3.19
1/4-in. wood chisel.
84 A 8082—Wt. 4 oz. 3.49
1 1/4-in. scraper.
84 A 8083—Wt. 3 oz. 2.99
Masonry, carver, scraper bit set.
84 A 4509—Wt. 8 oz. 6.99

3-in. scraper.
84 A 8084—Wt. 4 oz. 3.49
1/2-in. gouge.
84 A 8085—Wt. 3 oz. 3.29
1/2-in. grout chisel.
84 A 83205—Wt. 3 oz. 2.99
*Max. developed motor HP.

Extension cord sets

2-wire, 16-gauge indoor-outdoor cord sets for power tools, appliances. UL listed.

Lgth.	Amps	Cat. no.	Ship. wt.	Price
15 ft.	13	83 A 1348	1 lb.	3.39
25 ft.	13	83 A 1344 X	1 lb. 12 oz.	4.99
50 ft.	13	83 A 1345 X	3 lbs. 6 oz.	7.69
100 ft.	10	83 A 1346 X	7 lbs.	12.99

Drill accessories

N/O Drill stands convert drills to drill presses. Have rack-and-pinion feed with coil return spring, adjustable depth control, cast-aluminum construction and heavy-wall tubular steel columns. Unassembled.

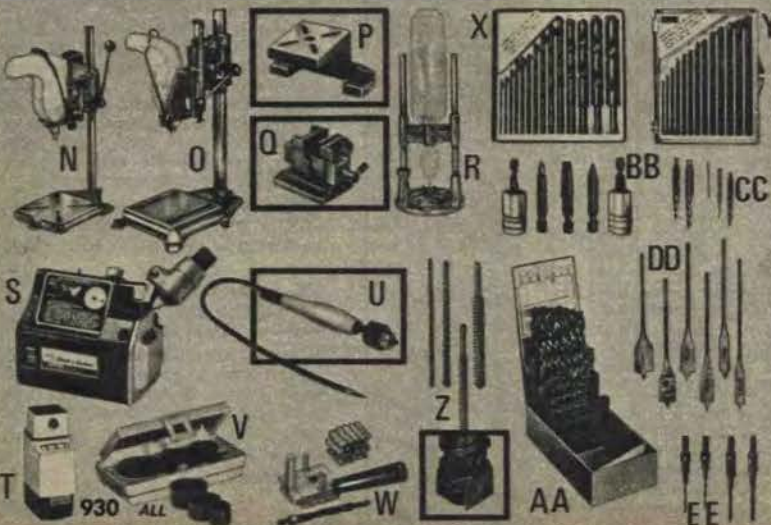
N Heavy-duty drill stand. Use with 1/2, 3/4, 1-in. drills. 2 1/2-in. stroke, 6-in. throat. 7 1/4 x 7 1/4-in. base. Use 84 A 9349 M for 3-in-1 drills. Ship. wt. 12 lbs. 12 oz. each.
84 A 83209 M—For Wards, B&D drills in this book. 49.99
84 A 9349 M—For all previous Wards drills. 49.99

O Standard drill stand. Cannot accommodate 1/2-in. drills. 2 1/2-in. stroke, 4 1/2-in. throat. 6 x 6-in. base. Use 84 A 9348 for 3-in-1 drills. Ship. wt. 7 lbs. 4 oz. each.
84 A 83208—For all Wards, B&D drills in this book. 27.99
84 A 9348—For all previous Wards drills. 27.99

P Rugged cast tilt table for drill presses above. Provides angled work surface. Bolts to slots in drill press base.
84 A 83215—Ship. wt. 1 lb. 7.49

Q Vise for drill stands above. Has 2-in. long jaws which open to maximum of 2 in. Jaws made of powdered metal with serrated grooves for better grip. Slots in base for mounting.
84 A 83216—Ship. wt. 1 lb. 5 oz. 12.99

R Portalign® drill stand transforms 1/4 or 3/8-in. drills into drill presses. Extendable guides automatically center on narrow edges such as doors, shelves. V-blocks hold pipe, most round stock. Mount under workbench for use as drum sander, rotary file, or shaper.
84 A 9231—Ship. wt. 2 lbs. 2 oz. 18.99





Black and Decker drills

G-J All these Black and Decker drills are double-insulated and have shunted brush systems to guard against brush failure during short-time overloads. All have permanently-lubricated metal-mounted bearings. All are UL listed for 120V, AC and have 10-ft. cords. Write for free copy of Manufacturer's Warranty, see page 605.

G TRADE drill with 1/2-in. chuck.
FEATURES: Variable speed, reversible.
MOTOR/BEARINGS: 5-amp, 3/4-HP* motor has needle/sleeve bearings. Does 0-650 no-load RPM.
CONSTRUCTION: Machined chuck. 3-position side handle, 2-position removable spade handle.
CAP.: 1/2-in. steel, 1-in. hardwood.
84A82518-Wt. 6 lbs. 6 oz. . . 109.00

DRILL WITH 1/2-IN. CHUCK.
FEATURES: Vari-speed, reversible.
MOTOR/BEARINGS: 4.5-amp, 1/2-HP* motor, ball, thrust, and sleeve bearings. Does 0-650 no-load RPM. Double-reduction gears.
CONSTRUCTION: 3-position side handle, 2-position spade handle. Detachable cord.
CAP.: 1/2-in. steel, 1-in. hardwood.
84A82517-Wt. 6 lbs. 4 oz. . . 89.00

H TRADE hammer drill with 1/2-in. chuck.
FEATURES: 2 speeds. Converts quickly from percussion drilling to straight rotary drilling. Aux. handle.
MOTOR/BEARINGS: 3.6-amp, .47-HP*. Ball-and-sleeve bearings. Does 1250, 2800 no-load RPM (18,750, 42,000 blows per minute).
CAPACITY: 3/8-in. masonry; 1/2-in. hard brick, tile, porcelain, steel; 1-in. hardwood.
84A82519-Wt. 5 lbs. 4 oz. . . 89.00

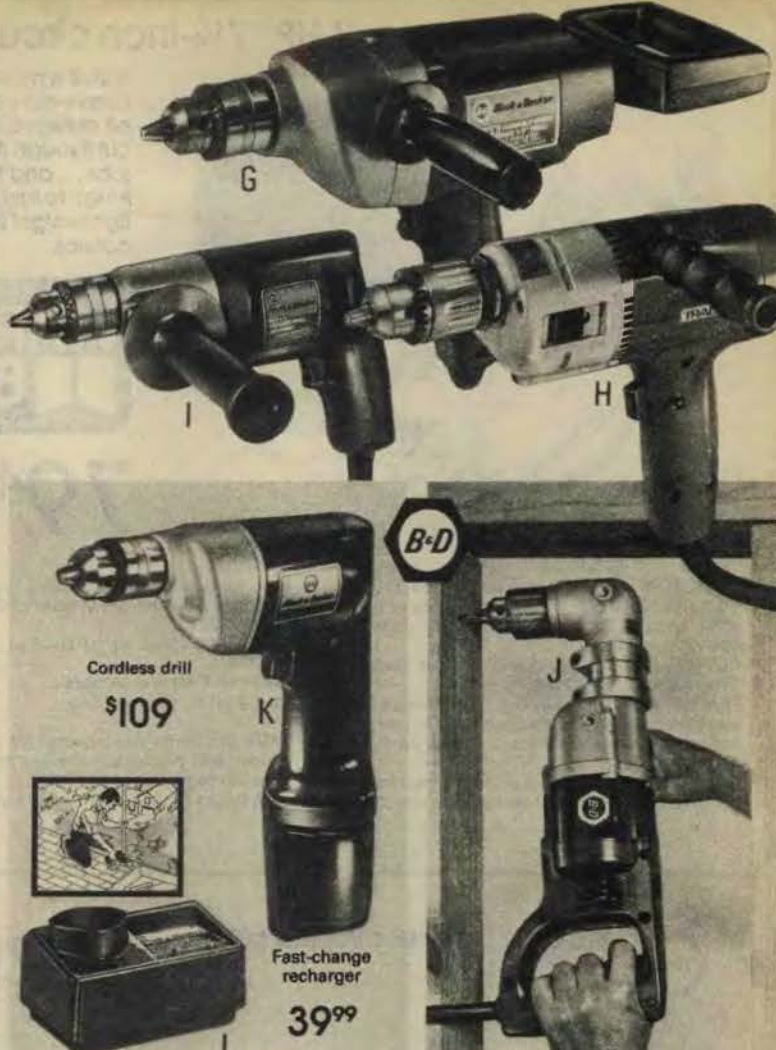
I TRADE compact drill with 1/2-in. chuck.
FEATURES: Vari-speed, reversible.
MOTOR/BEARINGS: 3.5-amp, 1/2-HP* motor has ball/sleeve bearings. Does 0 to 550 no-load RPM.
CONSTRUCTION: Two-position side handle. Center locking button.
CAP.: 1/2-in. steel, 1 1/2-in. hardwood.
84 A 82520—Ship. wt. 5 lbs. . . 99.00

TRADE DRILL WITH 3/4-IN. CHUCK.
FEATURES: Does 0-1200 no-load RPM, has double-reduction gears, and has 3/4-in. steel, 1 1/4-in. hardwood cap.
84 A 82015—Wt. 3 lbs. 14 oz. . 89.00

J TRADE right-angle drill with 1/2-in. chuck.
FEATURES: Fits easily in tight spaces . . . needs minimum elbow room. Rated for continuous heavy-duty use. Reversible.
MOTOR: 5.2 amps, has triple reduction gearing. Ball-and-needle bearings. 600 no-load RPM.
CONSTRUCTION: Auxiliary side handle. Machined cup chuck. Includes steel carrying case.
84 A 82521 M—Wt. 18 lbs. . . 229.00

K TRADE 3/4-in. cordless drill.
FEATURES: Reversible. Use it anywhere. It's quiet, versatile and compact enough to permit close-quarter work and maneuverability. Well balanced to keep arm and wrist fatigue at a minimum. Safety switch guards against accidental starting. Batteries recharge in 16 hours (with included recharger) or one hour with (L). Write for free copy of Manufacturer's Warranty, see page 605.
MOTOR: Does 750 no-load RPM. Ball/sleeve bearings, shunted brush system.
84 A 82013—Wt. 3 lbs. 4 oz. . 109.00

L Fast-charge recharger for (K). Recharges drill in one hour.
84 A 83203—Wt. 4 lbs. 4 oz. . . 39.99



Cordless drill

\$109

Fast-charge recharger

39.99

FULL ONE YEAR WARRANTY ON POWR-KRAFT PORTABLE ELECTRIC TOOLS

Montgomery Ward warrants this portable electric tool in personal or family use against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. Tools in other than personal or family use, except for rental use, are warranted on the same basis for ninety days from date of purchase. This warranty does not cover tools in rental use. For warranty service, return tool with required evidence of date of purchase to any Montgomery Ward Branch. For location of nearest branch, consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Powr-Kraft 1/2-in. heavy duty drill

M Heavy-duty 1/2-in. commercial drill with reversing feature. Die-cast aluminum and polycarbonate housing. Extra-control auxiliary handle.

SPECS: 6-amp, .59-HP* motor has double-reduction spur gearing for greater torque. Does 450 no-load RPM. Ball and needle bearing construction. Double insulated, does not need grounding. UL listed for 120V AC. Includes 10-ft. cord.

WARRANTY: See Wards Full One Year Warranty at left.

84 A 9243—Ship. wt. 10 lbs. 6 oz. . . 79.99

*Maximum developed motor horsepower.



79.99

give you greater versatility!

S Black and Decker professional drill bit sharpener. Sharpens carbon and high-speed drill bits from 1/8 to 1/2 in. Fine-finish grinding wheel.
SPECS: Heavy-duty 2.2-amp, ball-bearing induction-type motor turns 3600 RPM. Has no brushes to wear out. Self-contained wheel dressing system has diamond-tipped dresser. Calibrated feed control for even grinding. Write for free copy of Manufacturer's Warranty, pg. 605.
84 A 8401 M—Ship. wt. 16 lbs. . . 199.00

T Black and Decker drill bit sharpener has 1.9-amp motor that does 2250 no-load RPM. Accepts 11 sizes: (1/4 thru 3/4 in.). Not for carbide-tipped drill bits. 115V, AC. UL listed. Write for free copy of Manufacturer's Warranty, page 605.
84 A 4513—Ship. wt. 4 lbs. . . 32.99

U 40-in. flexible shaft. Use with electric drills, bench motors, 1/4-in. geared chuck. From England.
84 A 9318—Ship. wt. 2 lbs. . . 18.49

GEARED CHUCKS. 1/4 and 3/8-in. sizes have 3/4-in. x 24 thread. 1/2-in. size has 1/2-in. x 20 thread. Chuck key.
84 A 9365—1/4-in. Ship. wt. 8 oz. . . 5.99
84 A 9368—3/8-in. Ship. wt. 10 oz. . . 7.49
84 A 9367—1/2-in. Ship. wt. 11 oz. . . 9.99

V 7-pc. hole saw set. 1/4-in. mandrel shank. Dia. 1 1/4 to 2 1/2 in.
84 A 83211—Ship. wt. 1 lb. 4 oz. . . set 16.99

5-PC. HOLE SAW SET, 1 1/4-2 1/2 in. diameter. No case.
84 A 83210—Ship. wt. 12 oz. . . 9.99

W Self-centering doweling jig centers not only on edge and corners, but even in center of board. Includes jig, 1/4-in. drill bit with stop, twenty 1/4-in. pins.
84 A 83204—Ship. wt. 8 oz. . . 7.99

DOWELING JIG like (W) but for 3/4-in. dowels.
84 A 83206—Ship. wt. 8 oz. . . 9.99

X-AA Powr-Kraft twist drill bits. Made in U.S.A. from finest heat-treated, high-speed steel. Black-oxide coating for long life. Industrial-quality, precision ground. Exceed Federal Spec. GGG-D. 75 lb. Shank size is drill size.

(X, Y) High-speed twist drill bit homeowner sets					
Pieces	Drill bit sizes	Wt.	Catalog no.	Set	
10	1/16 to 1/2 in. (4 largest sizes have 1/4-in. shank)	11 oz.	84 A 82734	19.99	
13	1/16 to 1/2 in. by 64ths	5 oz.	84 A 82733	11.99	
10	Case 1/8 to 3/8 in. by 32nds	4 oz.	84 A 82730	7.99	
7	Pouch 1/8 to 3/4 in. by 32nds	4 oz.	84 A 82707	5.99	

(Z) 4-piece masonry drill bit set. Carbide-tipped for brick, concrete, plaster, cinderblock. 6-in. long, 1/4-in. shank. Bit sizes 1/4, 3/8, 1/2, 5/8 in.
84 A 82795—Ship. wt. 9 oz. . . set 7.99

4-PC. HIGH-SPEED DRILL BIT SET with 1/4-in. shanks. Plastic pouch, 1/4, 3/8, 1/2, and 5/8 in.
84 A 82784—Ship. wt. 1 lb. 5 oz. . . set 12.99

STURDY METAL DRILL BIT CASE. Holds 29 bits, 1/8 to 1/2 in. by 64ths. Bits not included.
84 A 83701—Ship. wt. 1 lb. 5 oz. . . case 5.99

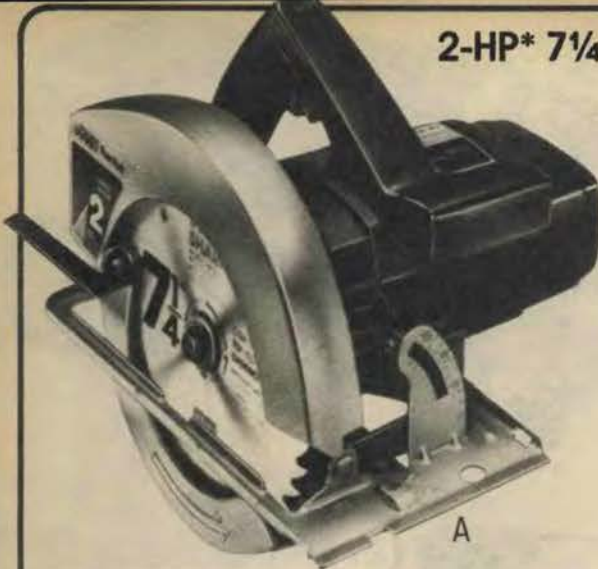
(AA) High-speed twist drill bit industrial sets					
Pieces	Drill bit sizes	Ship. wt.	Catalog no.	Set	
29	1/8 to 1/2 in. by 64ths	3 lbs. 8 oz.	84 A 82769	59.99	
21	1/8 to 3/4 in. by 64ths	1 lb. 10 oz.	84 A 82761	34.99	
15	1/8 to 1/2 in. by 32nds	2 lbs.	84 A 82755	29.99	
13	1/8 to 1/2 in. by 64ths	13 oz.	84 A 82753	13.99	

BB 5-pc. screwdriver bit set drives screws, bolts, 2 slotted, 2 Phillips bits, 1/4-in. socket adapter.
84 A 9311—Ship. wt. 3 oz. . . set 4.99

CC 5-pc. screw extractor set. Sizes 1 to 5.
84 A 5559—Ship. wt. 5 oz. . . set 5.99

DD 6-pc. wood-boring bit set. Tool steel. Sizes 1/8, 1/4, 3/8, 1/2, 5/8, and 1 in. 1/4-in. shanks. Pouch. From Italy.
84 A 4517—Ship. wt. 11 oz. . . set 9.99

EE 4-pc. counterbore set drills and countersinks at the same time. Adj. drilling depth for woodscrew sizes 5 to 12. 1/4-in. shank.
84 A 4507—Ship. wt. 2 oz. . . set 5.99



2-HP* 7 1/4-inch circular saw

With the most powerful, heavy-duty motor of all our saws, it can cut through the big jobs... and it's built tough to last long, yet lightweight for easy control.



79⁴⁹

A MOTOR: 2-HP,* 10-amp motor produces 5,300 no-load RPM. All permanently lubricated ball and roller bearings help assure smooth, dependable operation and long life.
CUTTING DEPTH: 7 1/4-in. rip/crosscut blade cuts 2 1/8-in. deep at 90°, 1 1/4-in. at 45°.
FEATURES: Sawdust ejection chute keeps sawdust away from cutting line. Power lock-off button guards against accidental starts. Front and top handles give better control.
CONSTRUCTION: Die-cast aluminum gear and blade housing. Polymer motor housing. Wrap-around steel

shoe for added support. Double insulated. 120V AC. 6-ft. cord. UL listed. See Wards Full One Year Warranty on page 931.

84 A 80008—Ship. wt. 11 lbs. 6 oz. 79.49

RIP FENCE for saw (A) above.

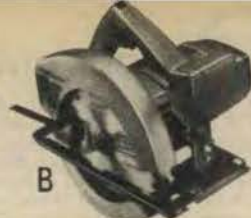
84 A 80414—Ship. wt. 6 oz. 3.99

SAVE \$15 when you buy saw (A) above with heavy gauge steel power tool storage case, item (BB) on opposite page. Separately 99.48.

84 A 91723 L—Ship. wt. 12 lbs. 1 oz. 84.44

Our better
Powr-Kraft
circular saw

59⁴⁹



Wards lowest
priced circular
saw

22⁹⁷

B,C All Powr-Kraft circular saws listed here have permanently lubricated bearings, are double insulated, and UL listed for 120V AC. All have Wards Full One Year Warranty, see pg. 931.

(B) Our Better 7 1/4-inch circular saw.

MOTOR: 1 1/2-HP,* 10 amp; 5,300 no-load RPM.
CUTTING DEPTH: 2 1/8-in. at 90°, 1 1/4-in. at 45°.

FEATURES: Power lock-off button, sawdust ejection chute, and two handles for better control.

84 A 80007—Ship. wt. 11 lbs. 4 oz. 59.49

1 1/2-HP* CIRCULAR SAW like (B); 9.5 amp motor.

84 A 80006—Ship. wt. 11 lbs. 4 oz. 49.49

1 1/2-HP* CIRCULAR SAW like (B); 9-amp motor.

84 A 80005—Ship. wt. 11 lbs. 4 oz. 39.49

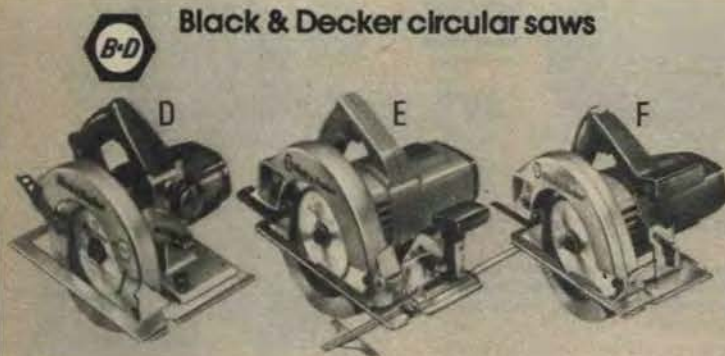
RIP FENCE for saws above.

84 A 80414—Ship. wt. 6 oz. 3.99

(C) 5 1/2-inch circular saw with .8-HP,* 5-amp motor. Produces 4,000 no-load RPM.

84 A 80004—Ship. wt. 6 lbs. 10 oz. 22.97

Black & Decker circular saws



D-F All Black & Decker circular saws listed here have die-cast aluminum gear and blade housings, steel shoes, polymer motor housings. All are double insulated, UL listed for 120V AC. Write for a free copy of Manufacturer's Warranty, see pg. 605.

(D) TRADE 2 1/2-HP* circular saw with easily controlled vertical adjustment.

MOTOR: 11.5 amp, 5,500 no-load RPM. Ball bearing construction.

CUTTING DEPTH: Combination blade cuts 2 1/8-in. deep 90°, 2-in. 45°.

FEATURES: Shunted brush system,

oversized retracting lever.

84 A 80012—Ship. wt. 14 lbs. 129.00

(E) TRADE 2-HP* circular saw with electric brake, stops blade in seconds.

MOTOR: 10 amp, 5,300 no-load RPM. Ball and roller bearings.

CUTTING DEPTH: Combination blade cuts 2 1/8-in. deep at 90°, 1 1/4-in. at 45°.

84 A 80009—Ship. wt. 12 lbs. 114.00

(F) Saw like (E) but without electric brake. Has carbide tip blade.

84 A 80011—Wt. 11 lbs. 6 oz. 89.00

*Max. developed motor horsepower.

Saw blades... buy two or more and SAVE 20%

O Resinoid saw-gumming wheels. Removes gum, sharpens saws and circular saw blades. Thin wheels cut, slot metal. Aluminum oxide, 60 grit.

Z 84 A 8080 D—State size number:

Size 01: 6x1/2-in. Ship. wt. 7 oz. 4.49

Two or more each 3.59

Size 03: 8x1/2-in. Ship. wt. 12 oz. 4.99

Two or more each 3.99

SILICON-CARBIDE MASONRY CUTTING WHEELS. Cut brick, soft non-ferrous metal, plastic, tile, etc. 1/2-in. bushing, 1/2-in. round arbor.

Z 84 A 8076 D—State size number:

Size 01: 6x1/2-in. Ship. wt. 7 oz. 4.19

Two or more each 3.34

Size 03: 7x1/2-in. Ship. wt. 8 oz. 4.39

Two or more each 3.49

ALUMINUM-OXIDE CUTTING WHEELS like #8076 but for cutting harder ferrous metals, pipes, etc.

Z 84 A 8075 D—State size number:

Size 01: 6x1/2-in. Ship. wt. 7 oz. 3.99

Two or more each 3.19

Size 03: 7x1/2-in. Ship. wt. 8 oz. 4.29

Two or more each 3.39

P Standard combination blades for fast rip/crosscuts.

Z 84 A 8310 D—State size number:

Size no. Round arbor Bushing Wt. lbs. oz. Each 2 or more ea.

6 in. 60 1/2 in. 1/2 in. 7 3.40 2.79

6 1/2 in. 65 1/2 in. 1/2 in. 8 3.80 3.09

7 in. 70 1/2 in. 1/2 in. 9 4.20 3.30

7 1/4 in. 74 1/2 in. 1/2 in. 11 4.60 3.59

7 1/2 in. 75 1/2 in. 1/2 in. 12 4.60 3.74

8 in. 80 1/2 in. 1/2 in. 13 5.19 4.14

8 1/4 in. 84 1/2 in. 1/2 in. 14 5.40 4.29

Table for item (P) continued.

Diam.	Size no.	Round arbor	Bushing	Wt. lbs. oz.	Each	2 or more ea.
9 in.	90	1/2 in.	1/2 in.	1 3	6.19	4.94
10 in.	10	1/2 in.	1/2 in.	1 8	7.29	5.79
12 in.	12	1/2 in.	1/2 in.	2 12	12.99	10.39

5 1/2-IN. STANDARD COMBINATION BLADE like (P). 1/2-in. arbor. Ship. wt. 4 oz.

84 A 80415 D... 2.99; 2 or more ea. 2.39

5 1/2-IN. STANDARD PLYWOOD BLADE like (Q). 1/2-in. arbor. Ship. wt. 4 oz.

84 A 80416 D... 3.49; 2 or more ea. 2.79

Q Standard plywood blades have fine-set teeth for smooth non-splintering cuts.

Z 84 A 8320 D—State size number:

Diam.	Size no.	Round arbor	Bushing	Wt. lbs. oz.	Each	2 or more ea.
6 in.	60	1/2 in.	1/2 in.	7	3.79	2.99
6 1/2 in.	65	1/2 in.	1/2 in.	8	4.19	3.34
7 in.	70	1/2 in.	1/2 in.	10	4.50	3.64
7 1/4 in.	74	1/2 in.	1/2 in.	11	4.79	3.79
7 1/2 in.	75	1/2 in.	1/2 in.	13	4.90	3.89
8 in.	80	1/2 in.	1/2 in.	14	5.40	4.39
9 in.	90	1/2 in.	1/2 in.	1 5	6.60	5.34
10 in.	10	1/2 in.	1/2 in.	1 10	7.79	6.19

R Carbide-tip combination blades. The more teeth, the finer the cut on plywood, paneling. Not for masonry, metal, 1/4-in. arbor.

Cat. No.	Diam.	Teeth	Wt. lbs. oz.	Each	2 or more
84 A 80421 D	6 1/2 in.	16	10	10.99	8.79
84 A 80422 D	7 1/4 in.	18	11	12.99	10.39
84 A 80423 D	8 in.	20	14	13.99	11.19
84 A 80424 D	10 in.	28	1 14	16.99	13.99

Table for item (R) continued.

Cat. no.	Diam.	Teeth	Wt. lbs. oz.	Each	2 or more ea.
84 A 80425 D	7 1/4 in.	40	11	22.99	18.39
84 A 80426 D	8 in.	40	14	24.99	19.99
84 A 80427 D	9 in.	40	1 9	27.99	22.39
84 A 80428 D	10 in.	40	1 15	29.99	23.99
84 A 80431 D	10 in.	60	1 12	44.99	35.99

S 7-7 1/4-in. 12 tooth carbide-tipped general combination blade designed to cut fast and last longer on 2x4's and other solid woods.

84 A 80419 D—Wt. 10 oz. 10.99; 2 or more ea. 8.79

T Taper-ground combination blades for natural wood (not for plywood or veneer).

Z 84 A 8300 D—State size number:

Diam.	Size no.	Round arbor	Bushing	Wt. lbs. oz.	Each	2 or more ea.
6 1/2 in.	65	1/2 in.	1/2 in.	8	6.80	5.34
7 in.	70	1/2 in.	1/2 in.	11	6.90	5.50
7 1/4 in.	74	1/2 in.	1/2 in.	12	7.29	5.79
8 in.	80	1/2 in.	1/2 in.	14	8.50	6.84
9 in.	90	1/2 in.	1/2 in.	1 5	11.29	8.99
10 in.	10	1/2 in.	1/2 in.	1 9	14.29	11.39
12 in.	12	1/2 in.	1/2 in.	2 4	18.99	15.19

U Taper-ground plywood veneer blades.

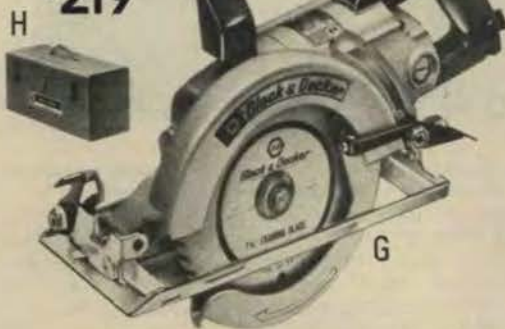
Z 84 A 8360 D—State size number:

Diam.	Size no.	Round arbor	Bushing	Wt. lbs. oz.	Each	2 or more ea.
7 1/4 in.	74	1/2 in.	1/2 in.	13	7.79	6.19
8 in.	80	1/2 in.	1/2 in.	15	9.19	7.34
10 in.	10	1/2 in.	1/2 in.	1 14	14.99	11.99
12 in.	12	1/2 in.	1/2 in.	2 14	23.99	19.19



Black & Decker worm-drive circular saws

\$179 to
\$219



"Worm drive"
is a gearing
system unsur-
passed in tor-
que. Stands up
to heavy use.

G TRADE 7 1/4-inch worm-drive circular saw.

MOTOR: 2 1/2-HP, 13-amp. Produces 4,300 no-load RPM. All oversized ball bearing construction.

CUTTING DEPTH: 2 1/8-in. deep at 90°, 1 1/2-in. deep at 45°. SPECS: Negator brush springs give constant pressure... increase brush life. Teflon® gear case seals reduce oil leakage. Adjustable levers for angle and depth of cut. Ribbed-steel shoe for added support. Heavy-duty trigger switch. UL listed for 120V AC. 10-ft. cord.

WARRANTY: For a free copy of Manufacturer's Warranty, see page 605.

84 A 80014 M—Ship. wt. 20 lbs. 189.00

6 1/2-INCH WORM-DRIVE CIRCULAR SAW like (G) but with 2-HP* motor. Cuts 2-in. deep at 90°, 1 1/8-in. deep at 45°. For free copy of Mfr.'s Warranty, see pg. 605.

84 A 80013 M—Ship. wt. 18 lbs. 179.00

8 1/4-INCH WORM-DRIVE CIRCULAR SAW like (G) but with 2 1/2-HP* motor. Cuts 2 1/8-in. deep at 90°, 2 1/4-in. deep at 45°. For free copy of Mfr.'s Warranty, see pg. 605.

84 A 80015 M—Ship. wt. 21 lbs. 219.00

H Metal carrying case for all Black & Decker worm-drive saws sold above.

84 A 80503 M—Ship. wt. 14 lbs. 6 oz. 39.95

*Maximum developed motor horsepower.

Recip and sabre saws

I-N All double insulated; UL listed for 120V AC. 6-10-ft. cords.

(I) Black & Decker TRADE 2-speed cut-saw kit. Ball/needle bearings. MOTOR: 6 amp. Produces 1,600 and 2,200 no-load strokes/minute.

FEATURES: 1-inch stroke for faster cutting, longer blade life. Balanced recip action reduces vibration, gives better control. Shunted brush system. INCLUDES: Steel kit box, 7 blades, and blade wrench. Mfr.'s Warranty.† 84 A 81404 M—Wt. 17 lbs. 129.00

(J) Black & Decker 1/2-HP* variable-speed reciprocating saw.

MOTOR: 4.5 amp. Does 0-2,600 no-load SPM. Permanently-lubricated roller and sleeve bearings.

FEATURES: 1-inch stroke, shunted brush system. Mfr.'s Warranty.* 84 A 81403—Wt. 6 lbs. 12 oz. 99.00

(K) Powr-Kraft 1/2-HP* reciprocating saw with variable-speed.

MOTOR: 4.2 amp. Does 0-2,600 no-load SPM. Roller/sleeve bearings.

FEATURES: 1-inch stroke, shunted brush system. Wards Warranty.† 84 A 81402—Wt. 6 lbs. 6 oz. 79.49

(L) Black & Decker 1/2-HP* TRADE variable-speed sabre saw.

FEATURES: Ball/sleeve bearings. Balanced reciprocating mechanism reduces vibration. Roller/blade support permits faster cutting. Mfr.'s Warranty.† 84 A 81011—Wt. 6 lbs. 4 oz. 89.00

(M) Powr-Kraft 4-HP* vari-speed sabre saw with infinite speed-lock.

MOTOR: 3.3 amp. 0-3,200 no-load SPM. Roller and sleeve bearings.

FEATURES: Calibrated tilting shoe for bevel and compound cuts. Built-in sawdust blower keeps work clear.

INCLUDES: Combination rip fence/circle guide. Wards Warranty.† 84 A 81007—Wt. 3 lbs. 10 oz. 49.49

1/2-HP* SABRE SAW with variable-speed. Sleeve bearings. 0-3,200 no-load SPM. Wards Warranty.† 84 A 81006—Wt. 3 lbs. 8 oz. 24.49

SABRE SAW like #81006, 2 speed. 84 A 81005—Wt. 3 lbs. 8 oz. 19.49

RIP FENCE/circle guide for #81005-6. 84 A 81515—Ship. wt. 6 oz. 3.49

(N) One-speed sabre saw. 2.8 amp motor. Wards Warranty.† 84 A 81004—Wt. 3 lbs. 8 oz. 12.97



Recip and sabre saw blades

1/4-IN. SHANK RECIP BLADE ASS'T.—5 blades: soft wood, nail embedded, key hole, ferrous and non-ferrous metal. Includes pouch. Ship. wt. 3 oz.

84 A 8957 5.79

3/8-IN. SHANK RECIP BLADE for saw #8932 listed in previous books—3 blades: fine wood, rough wood, metal cut. Ship wt. 2 oz.

84 A 8987 2.99

1/4-IN. SHANK SABRE SAW BLADE ASSORTMENT—10

blades: ferrous and non-ferrous metal cut, 2 taper-ground plywood, 2 softwood, 2 hardwood, 2 scroll. Ship. wt. 3 oz.

84 A 8273 5.49

1/4-IN. SHANK SABRE SAW BLADE ASS'T. for saw #8919 in previous books—5 blades: 2 metal cutting, fine wood, rough wood, and scroll. Ship. wt. 3 oz.

84 A 8272 4.79

*Maximum developed motor horsepower.

More circular saw accessories for professional results

HARDTOOTH COMBINATION BLADES (not shown). General purpose. 5/8-in. round arbor, 1/2-in. bushing.

Z 84 A 8340 D—State size number:

6 1/2-in. (No. 65). Ship. wt. 8 oz. 3.29

Two or more each 2.59

7-in. (No. 70). Ship. wt. 9 oz. 3.69

Two or more each 2.94

7 1/2-in. (No. 74). Ship. wt. 10 oz. 3.79

Two or more each 2.99

V Flooring and crosscut blade for sawing where nails may be present. Makes smooth crossgrain cuts. 7-in. diameter, 5/8-in. arbor, 1/2-in. bushing.

84 A 8395 D—Wt. 9 oz. 5.99; 2 or more ea. 4.79

W 7-inch sheet metal cutting blade for light gauge flat or corrugated steel (like metal roofing). Resists rust, sticking.

84 A 8325 D—Wt. 10 oz. 5.99; 2 or more ea. 4.79

X Saw-mate® helps you tackle big circular saw jobs.

USE: Crosscuts 48-in. wide materials... any length.

Rips 5 1/4-in. wide. Aids in precision angle, miter, bevel cuts. Fits saws with 4 1/2-8 1/2-in. blades.

CONSTRUCTION: Particle-board top. Folding metal legs for storage.

84 A 80407 RL—Ship. wt. 62 lbs. 129.95

SAW-MATE® (X) without legs.

84 A 80406 R—Ship. wt. 47 lbs. 99.95

Y Extension for Saw-Mate®, 24x34-in. long.

84 A 80403 R—Ship. wt. 27 lbs. 29.95

ROUTER GUIDE for Saw-Mate®.

84 A 80404—Ship. wt. 1 lb. 4 oz. 10.95

Z Circular saw radial accessory makes straight, miter, bevel and dado cuts. Slides along portable metal guide assembly. Self-adjusts to thickness of work. Pivots 45° right or left. Base included; saw not included. Fits 6-in. base saws. Comes unassembled.

84 A 8120 M—Ship. wt. 22 lbs. 37.99

AA Saw guide, protractor for circular saw and sabre saw angle cuts. Adjusts right or left, 0° to 72°.

84 A 9305—Ship. wt. 2 lbs. 6.49

BB Heavy-gauge steel power tool case for saws, sanders, drills, impact wrenches. 10x10x12-in. high.

84 A 8407—Ship. wt. 7 lbs. 19.99

CC 2-in-1 circular saw table... use with short legs as a bench table or with long legs/shelf as floor model. Allows 45° cuts. Includes adjustable rip fence, miter gauge, on/off switch, cord. Approx. 35-in. high.

84 A 80433 A—Ship. wt. 38 lbs. 89.99

CIRCULAR SAW TABLE like (CC) but works as floor model only. 84 A 80411 A—Ship. wt. 35 lbs. 69.99

DD Heavy-duty saw set sharpens circular saw blades without removing them from saw. Sets teeth measuring approximately 1/8-in. or more from point to point of tooth. Handles most circular saw blade diameters. Complete instructions included.

84 A 39374—Ship. wt. 12 oz. 5.99

EE Saw blade sharpener sharpens and joints up to 12-in. diameter blades. With grinding wheel, fits 1/2 to 1-in. arbor. Has index dials, safety guide. Fits blades 1/2, 3/4, or 1-in. round arbors. For radial or bench saws also.

84 A 4030—Ship. wt. 4 lbs. 12 oz. 33.99

†Write for a free copy of Manufacturer's Warranty, see page 605.

††See Wards Full One Year Warranty on page 931.





A

Dual action finishing sander

Combines our most powerful motor, large 1/2 sheet sanding area, straight line and orbital sanding action, plus a built-in dust collection system.



59⁴⁹

A 1/2-sheet dual-action sander with self contained dust collection system keeps work area clean. Features orbital and straight line sanding for a variety of finishing jobs. Get professional results, fast... and you can forget hand sanding.

SPECS: 1/2-HP*, 3-amp motor does 4,000 orbits per minute. Has permanently lubricat-

ed ball and sleeve bearings. With sure-grip clamps for quick and easy paper changing. UL listed for 120V AC. Double insulated. WARRANTY: See Wards Full One Year Warranty on page 931.

84 A 84006—Ship. wt. 6 lbs. 4 oz. . . . 59.49

*Maximum developed motor horsepower.



Finish furniture

Sand plaster

Dust collection

Powr-Kraft finishing sanders

19⁴⁹ to 49⁴⁹



B Powr-Kraft sanders—double insulated, UL listed for 120V AC. Permanently-lubed bearings. See Wards Warranty, pg. 931.

1/2-SHEET DUAL-ACTION like (A)—1/4-HP*, 2.8 amp, 4,200 OPM. 84 A 84005—Ship. wt. 5 lbs. 12 oz. . . . 49.49

1/2-SHEET SINGLE-ACTION SANDER—1.6 amp, 10,000 SFPM. 84 A 84004—Ship. wt. 3 lbs. 8 oz. . . . 29.49

1/2-SHEET SANDER like #84004 but without sure-grip clamps. 84 A 84003—Ship. wt. 3 lbs. 8 oz. . . . 19.49

Black & Decker TRADE finishing sander

\$119



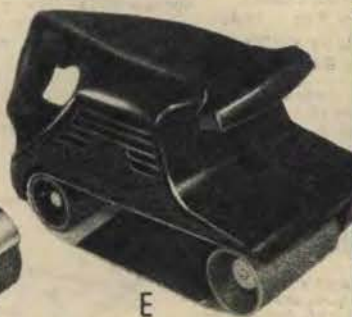
C Large 1/2-sheet finishing pad sander provides 60% more sanding surface than 1/2 sheet.

SPECS: 3-amp motor with permanently lubricated ball bearings at heavy load points. Produces 10,000 orbits per minute. Shunted brush system guards against brush failure due to short term overloading. UL listed for 120V AC. Comes with 10-ft. cord. Write for free copy of Manufacturer's Warranty, see page 605.

84 A 84009—Ship. wt. 8 lbs. . . . 119.00



D



E



sand edges

remove paint

Powr-Kraft belt sanders

D 3-inch belt sander.

SPECS: 1/2-HP*, 4-amp motor produces 100 no-load sanding ft./minute. Has permanently lubricated needle and sleeve bearings, rear and front grip handles, quick release safety trigger. Double insulated. UL listed for 120V AC.

WARRANTY: See Wards Full One Year Warranty on page 931.

INCLUDES: 3x18-inch sanding belt.

84 A 8543—Wt. 7 lbs. 8 oz. . . . 59.49

E Powerful 4-inch belt sander.

SPECS: 1-HP*, 8.0-amp motor. Big 20-inch long belt covers 1,375 no-load sanding ft./minute. Permanently lubricated ball and sleeve bearings. All gear driven. Dynamically balanced to reduce vibrations. Front and rear grip handles. Double insulated. UL listed for 120V AC.

WARRANTY: See Wards Full One Year Warranty on page 931.

84 A 9100—Wt. 12 lbs. 8 oz. . . . 79.99

\$129

Black & Decker belt sander

F B&D TRADE 3x24-in. sander with dust collection system.

SPECS: .85-HP*, 5.5 amp motor. Permanently lubricated ball, needle and sleeve bearings. Two speeds: 1,050 and 1,200 no-load sanding ft./minute. All gear driven. Low center of gravity... motor between pulleys put weight where it counts. Auxiliary front handle. Write for free copy of Mfr.'s Warranty, see pg. 605.

84 A 84321—Ship. wt. 11 lbs. 2 oz. . . . 129.00

B&D BELT SANDER like (F) with 3/4-HP*, single speed. Roller/sleeve bearings. For free copy of Mfr.'s Warranty, see pg. 605.

84 A 84320—Ship. wt. 11 lbs. . . . 99.00



G



J



H

Power tool safety equipment

G Fully adjustable hearing protector.

84 A 89105—Wt. 14 oz. . . . 12.99

H Clear face shield with adjustable headpiece.

84 A 89108—Ship. wt. 1 lb. . . . 9.99

I Dust mask. Order extra filter below.

84 A 89103—Ship. wt. 3 oz. . . . 2.99

84 A 89104—Pkg. 5 filters. Wt. 2 oz. . . . 1.99

J Safety goggles. Use alone or over glasses.

84 A 89101—Ship. wt. 5 oz. . . . 3.49

Powr-Kraft sander, polishers, and grinders

A 7-inch commercial-duty grinder.

SPECS: 1½-HP*, 10-amp burnout protected motor. Produces 4,500 no-load RPM. 100% permanently lubricated ball bearing construction. Shock absorbing gear mounted system. Hardened steel alloy gears. Low-profile gear box. UL listed for 115V AC. Comes with 9-ft. 3-wire cord. Wards Warranty.†

CONSTRUCTION: Die-cast aluminum housing with non-mar bumper and polycarbonate handle.

INCLUDES: Removable grinding guard and auxiliary handle, rubber backing pad.

84 A 84301—Ship. wt. 13 lbs. 179.00

COMMERCIAL SANDER like (A) but without grinding guard. Wards Warranty.†

84 A 84302—Ship. wt. 12 lbs. 159.00

4-INCH COMMERCIAL-DUTY GRINDER (not shown) for hard to reach areas... easy to handle.

SPECS: ½-HP*, 3.7 amp burnout protected motor produces 11,500 no-load RPM. 100% permanently lubricated ball bearing construction. Shock absorbing gear mounting system. Hardened steel alloy gears. Low-profile gear box. Double insulated. UL listed for 115V AC. Made in Japan. Wards Warranty.†

CONSTRUCTION: Polycarbonate motor housing and handle.

INCLUDES: Grinding guard, auxiliary handle and backing pad.

84 A 84310—Ship. wt. 5 lbs. 7 oz. 99.99

B 7-inch heavy-duty grinder.

SPECS: 1½-HP* burnout protected motor produces 5,000 no-load RPM. Has permanently lubricated ball, roller and sleeve bearing construction. Double insulated. UL listed for 120V AC. Wards Warranty.†

CONSTRUCTION: Cyclocac® high-impact body, die-cast aluminum motor/gear housing.

INCLUDES: Safety guard, rubber backing pad, sanding disc, auxiliary handle.

84 A 85271—Ship. wt. 11 lbs. 8 oz. 99.99

7-INCH HEAVY-DUTY POLISHER/SANDER like (B) but with 2 speeds: 1,600 no-load RPM and 2,500 no-load RPM. Wards Warranty.†

INCLUDES: Auxiliary handle, polishing bonnet, sanding disc, rubber backing pad.

84 A 8576—Ship. wt. 10 lbs. 8 oz. 89.99

C 7-inch standard-duty polisher/sander.

SPECS: ¾-HP*, 4-amp motor. 2 speeds: 1,550 no-load RPM, and 1,200 no-load RPM. Double insulated. UL listed for 120V AC. Wards Warranty.†

CONSTRUCTION: Cyclocac® high-impact body, die-cast aluminum motor/gear housing.

INCLUDES: Auxiliary handle.

84 A 8166—Ship. wt. 8 lbs. 59.99

*Maximum developed motor horsepower.

†See Wards Full One Year Warranty for power hand tools on page 931.

See accessories for these tools below.



C
Our Good
59⁹⁹

B
Our Better
99⁹⁹

A
Our Best
179

All covered by
Wards Full
One-Year Warranty

Shop 2 great ways—through our Catalogs, in our Stores



Black & Decker commercial sander, grinder

- Packed with power at the right speed for excellent performance... rated for continuous use.
- Well balanced with good weight distribution for less effort on your part

D Black & Decker 7-inch commercial-duty sander/grinder.

SPECS: 8.5-amp motor. 4,800 no-load RPM. Ball and needle bearings. Heavy-duty bevel, spiral, helical gear system for performance. Instant-release trigger. Write for free copy of Mfr.'s Warranty, see pg. 605. Quick-change backing pad, two-position side handle, heavy-duty spindle.

84 A 8141 M—Ship. wt. 11 lbs. 169.00

84 A 85841—Grinding disc guard for (D), (shown on sander). Wt. 1 lb. 6 oz. 14.99

Sanding and grinding accessories

GRINDING WHEELS for 4-in. grinder.

84 A 84606—Fine. Wt. 6 oz. ea. 3.49

84 A 84607—Coarse. Wt. 6 oz. ea. 3.49

SANDING KIT for 4-in. grinder includes backing pad, clamp nut, allen wrench.

84 A 84605—Wt. 1 lb. 8 oz. 4.99

SANDING DISCS for 4-in. Pkg. of 5.

84 A 84608—Fine. Wt. 3 oz. pkg. 3.49

84 A 84603—Medium. Wt. 3 oz. pkg. 3.49

84 A 84604—Coarse. Wt. 3 oz. pkg. 3.49

GRINDING DISCS for 7-in. grinders. State no.:

01 (aluminum oxide), 02 (silicon carbide). Aluminum oxide for cutting and grinding ferrous metals, silicon carbide for cutting masonry or brick.

ORDERING: State size number.

Z 84 A 8077—Wt. 1 lb. 4 oz. ea. 5.99

POLISHING BONNETS for 7-in.

84 A 8168—Best pad. Wt. 8 oz. 3.99

84 A 84612—Best bonnet. Wt. 6 oz. 4.99

84 A 9340—Good bonnet. Wt. 4 oz. 2.99



Industrial quality aluminum-oxide cloth belts for wood, metal, plastic, plaster. State size number: 01 (Fine), 02 (Medium), 03 (Coarse).

Size	Pkg. of	Cat. no.	Ship. wt.	Pkg.	3 pkgs.	10 pkgs.
3x18 in.	2	Z 84 A 8001	2 oz.	2.49	6.99	21.99
3x21 in.	2	Z 84 A 8002	3 oz.	2.69	7.49	23.99
3x24 in.	2	Z 84 A 8003	3 oz.	2.99	8.49	25.99
4x21½ in.	2	Z 84 A 8004	4 oz.	4.49	12.49	39.99
4x36 in.	2	Z 84 A 8006	5 oz.	4.99	13.99	43.99
6x48 in.	1	Z 84 A 8007	3 oz.	3.99	10.99	34.99

Industrial quality aluminum-oxide paper-baked discs for wood, metal, plastic, plaster. For portable and bench sanders. State number when ordering.

Size	Grit	No.	Cat. no.	Quantity	Ship. wt.	Pkg.	3 pkgs.	10 pkgs.
5 in.	Assorted	05	Z 84 A 8012	Pkg. of 5	2 oz.	1.19	3.39	10.49
6 in.	Assorted	05	Z 84 A 8013	Pkg. of 5	4 oz.	1.59	4.49	13.99
7 in.	Fine	01	Z 84 A 8014	Pkg. of 5	5 oz.	1.79	4.99	15.99
7 in.	Medium	02	Z 84 A 8014	Pkg. of 5	5 oz.	1.79	4.99	15.99
7 in.	Coarse	03	Z 84 A 8014	Pkg. of 5	5 oz.	1.79	4.99	15.99
7 in.	Ex. Coarse	04	Z 84 A 8014	Pkg. of 3	5 oz.	1.79	4.99	15.99
10 in.	Fine	01	Z 84 A 8017	Pkg. of 5	5 oz.	2.99	8.49	25.99
10 in.	Medium	02	Z 84 A 8017	Pkg. of 5	6 oz.	2.99	8.49	25.99
10 in.	Coarse	03	Z 84 A 8017	Pkg. of 5	7 oz.	2.99	8.49	25.99

Aluminum-oxide, fiber-backed, heavy-duty sanding discs for auto body refinishing. Resin fiber adds to holding power under heavy sanding. ½-in. center hole.

7 in.	Fine	01	Z 84 A 8021	Pkg. of 5	3 oz.	3.99	10.99	34.99
7 in.	Medium	02	Z 84 A 8021	Pkg. of 5	3 oz.	3.99	10.99	34.99
7 in.	Coarse	03	Z 84 A 8021	Pkg. of 5	3 oz.	3.99	10.99	34.99
7 in.	Ex. Coarse	04	Z 84 A 8021	Pkg. of 5	3 oz.	3.99	10.99	34.99

Powr-Kraft orbital polisher/sanders

E 8-inch random-orbit polisher for waxing and polishing cars... sanding wood, metal.

SPECS: ½-HP*, 3 amp motor produces 2,500 orbits/minute. Double insulated. UL listed for 120V AC. Wards Warranty.†

INCLUDES: Polishing bonnet, 2 foam bonnets, 3 sanding discs, auxiliary handle.

84 A 84313—Ship. wt. 5 lbs. 12 oz. 59.49

EXTRA POLISHING BONNET.

84 A 84613—Ship. wt. 4 oz. 3.49

EXTRA FOAM WAX APPLICATOR BONNET.

84 A 84614—Ship. wt. 4 oz. 3.49

F 6-in. sander/polisher with ½-HP* motor.

Does 2,500 no-load orbits/min. UL listed for 120V AC. Double insulated. Includes backing pad, polishing bonnet, sanding disc. Wards Warranty.†

84 A 84312—Wt. 3 lbs. 12 oz. 29.49

EXTRA 6-IN. BONNET.

84 A 9343—Ship. wt. 4 oz. 2.49

*Maximum developed motor horsepower.

†See Wards Warranty on pg. 931.

ALL WARDS 935



Black & Decker Workwheel



69⁹⁹

You'll find yourself using it more than any other tool!



A Workwheel™... multi-purpose tool performs a variety of stripping and finishing jobs. Highly recommended for stripping/sanding curved, contoured areas.

FEATURES: Two speeds. Lightweight maneuverability, two-handle control.

SPECS: 6-amp motor produces 2,700 and 3,400 no-load RPM. Permanently lubed ball, sleeve bearing. Double insulated. 120V AC. Manufacturer's Warranty.*

INCLUDES: Flap wheel, 80 grit unslashed sandpaper, 120 grit slashed sandpaper, and mounting bracket (bolts Workwheel™ to bench for stationary work).

84 A 85013—Ship. wt. 7 lbs. 12 oz. 69.99

B Workwheel™ and accessory kit. Includes Workwheel™, Clean 'n' Strip® wheel, sanding flap wheel, 120 grit slashed sandpaper, cushion sanding pad, polishing bonnet, 3 assorted sanding discs, mounting bracket for stationary work, carrying case.

84 A 85014—Ship. wt. 11 lbs. 6 oz. 119.00

Sanding flap wheel with slashed paper.

84 A 85032—Ship. wt. 7 oz. 9.99

Clean 'n' Strip wheel.

84 A 85033—Ship. wt. 6 oz. 8.49

7-inch cushion sanding pad.

84 A 85037—Ship. wt. 5 oz. 12.49

7 assorted sanding discs.

84 A 89725—Ship. wt. 5 oz. 3.99

Medium wire wheel brush.

84 A 85034—Ship. wt. 1 lb. 12.49

18 assorted grit unslashed sanding strips.

84 A 85035—Ship. wt. 4 oz. 6.99

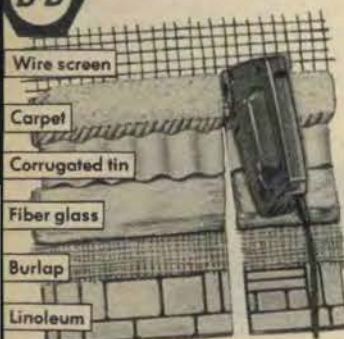
18 assorted grit slashed sanding strips.

84 A 85036—Ship. wt. 4 oz. 6.99

For 7-inch polishing bonnet see page 835.



Black & Decker rotary cutter



69⁹⁹

C Unique heavy-duty tool performs a multitude of cutting jobs quickly, easily.

FEATURES: Variable speed switch for accurate cutting, self-feeding hardened steel blades, reversing switch for disengaging tool from material. Cuts steel up to .024-in., also copper, tin, canvas, corrugated boxes... plus materials above.

SPECS: 2-amp motor produces 60 no-load RPM. Permanently lubricated ball, sleeve bearings. Double insulated. UL listed for 120V AC. Mfr.'s Warranty.*

84 A 85031—Ship. wt. 4 lbs. 10 oz. 69.99

Black & Decker Jack Rabbit™ Pump



D Black & Decker's new multi-purpose hand pump, siphon, or sprayer for transferring gasoline, water, or most liquids. Pump water from fish tanks, humidifiers, hard to reach areas. Spray insecticides, plant food. Pumps 1 to 2 gallons per minute up to 17-ft. high. Self-priming, easy to operate, no electricity needed.

84 A 85019—Ship. wt. 1 lb. 14 oz. 14.99

*Write for free copy of Manufacturer's Warranty, see pg. 805.

Jack posts

Keep floors level, help prevent costly repairs

All purpose jack post

E **SPECS:** Includes top and bottom plates, 1-in. diameter threaded screws, turning bar, instructions.

CAPACITY: Use with 4x4-in. lumber or 3 to 3½-in. pipe. Lifts up to 5,000 lbs., supports to 10,000 lbs. Ship. wt. ea. 5 lbs.

84 A 5511..... ea. 9.49; 2 for 17.99

Mobile home jack post

F **SPECS:** All steel, one piece. Adjusts from 1¼ to 15-in. high. 4x5-in. top and bottom plates. Top plate has tabs which when pounded with hammer will wrap around trailer frame to hold securely.

CAPACITY: Lifts 4,000 lbs., supports up to 40,000 lbs.

ORDERING: Posts come in packages of 2 with turning bar. Use 2 pkgs. for homes up to 40-ft. long, 3 pkgs. up to 60-ft., and 4 pkgs. up to 70-ft.

84 A 5517—Ship. wt. 15 lbs. 19.99

8,000 to 20,000 lb. post*

G **SPECS:** Welded double-tube post with gray enamel finish. Outer tube 2½-in. diameter. Adjusts 4-ft. 6-in. to 7-ft. 9-in. Steel nut and screw adjust 3-in. Includes two ¼-in. diameter pins, turning bar, 4x4-in. plate, instructions.

CAPACITY: Supports up to 12,000 lbs.

84 A 5516 R—Ship. wt. 18 lbs. 19.49

20,000 lb. post*

H **SPECS:** Fine-threaded lift screw. Gray enamel rust-resistant finish. Adjusts from 1-ft. 9-in. to 3-ft. Includes turning bar, 4x4-in. plate with bolt holes and complete instructions.

CAPACITY: Supports to 20,000 lbs.

ORDERING: Use where headroom is 3-ft. or less.

84 A 5510 M—Ship. wt. 11 lbs. 12.99

15,000 to 25,000 LB. POST adjusts from 4-ft. 11-in. to 8-ft.

CAPACITY: Supports to 25,000 lbs.

84 A 5522 R—Ship. wt. 30 lbs. 27.99

38,000 lb. post*

I **SPECS:** One-piece high tensile posts have red enamel finish for protection against rust and corrosion. Meet FHA requirements. 3-in. diameter overall. Includes 1¼-in. precision screws, ¼-in. bearing plates, and instructions.

CAPACITY: Compression tested to support up to 38,000 lbs.

Adjusts ft.-in.	Catalog number	Ship. wt.	Each
6-6 to 6-9	84 A 5507 R	31 lbs.	23.99
6-9 to 7-9	84 A 5508 R	32 lbs.	24.99
7-0 to 7-3	84 A 5509 R	33 lbs.	25.99
7-3 to 7-6	84 A 5512 R	34 lbs.	26.99
7-6 to 7-9	84 A 5513 R	35 lbs.	27.99

*Load capacity at minimum height

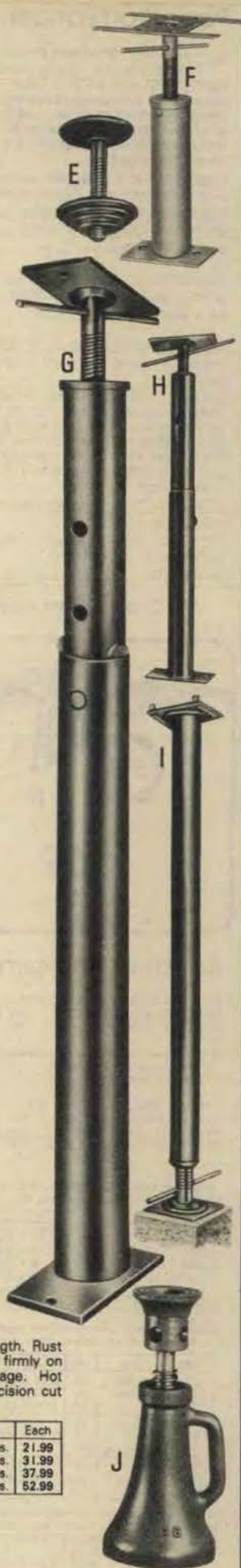
Heavy-duty jack screws

J **SPECS:** High tensile gray iron for strength. Rust resistant finish. Wide bell bottom rests firmly on floor... less chance of accidental slippage. Hot forged, one-piece steel turnscrow has precision cut threads. Corrugated swivel caps. Mailable.

Tons	Adjust ht.†	Diam.†	Catalog no.	Wt.	Each
8	8½-13 in.	1 in.	84 A 5520 M	13 lbs.	21.99
10	10½-16 in.	1¼ in.	84 A 5521 M	13 lbs.	31.99
12	12½-20 in.	1½ in.	84 A 5523 M	17 lbs.	37.99
20	15¼-24 in.	2 in.	84 A 5524 M	30 lbs.	62.99

†Diameter given is screw size.

Shop 2 great ways... through our Catalogs, and in our Stores



Black & Decker's Best clampdown 35-in. Workmate®



E
149⁹⁵



Workmate® work center with special clamp-down feature that holds materials down for sanding, sawing, etc. 35-in. vise jaws open to 19½-in. wide... function in horizontal, vertical, or 45° angle positions. Swivel grips hold odd shapes up to 26-in. wide, individually adjustable handles permit vise jaws to grip even wedge-shaped objects. Centerboard placed behind vise makes a 35x23¼-in. work area. Fold one leg and unit assumes sawhorse height. Unit folds to carry or store. Folded: 35½x33x8-in. deep. Sturdy steel frame... holds 750 lbs. Comes fully assembled.

84 A 3330 R—Ship. wt. 57 lbs. 149.95



Free-standing workshop units

SAVE \$18 when you buy (A), (B), and (C) together

• Just right for the handyman who wants a functional, well organized workshop

A-C Specially designed grouping provides an amazing amount of work surface and storage space for homeowner or professionals with a limited workshop area.

FEATURES: 1-in. thick industrial grade pressed wood work surfaces. Heavy-gauge gray steel frame and legs (with electrical knockouts). Orange perforated hardboard backstops and side panels for handy tool storage. Cabinets (24x18x5-in. deep) have sliding doors and 2 adjustable shelves. Drawers are 12x3x18-in. deep. Assembly instructions included. Tools are not included.

COMPLETE WORKSHOP INCLUDES: Unit (A), (B) and (C). Ship. wt. 169 lbs.

84 A 2923 R Separately 192.97; group 174.88

A 48-in. wide unit has 20x48-in. wide work surface, two cabinets, two drawers, bottom shelf and more

shelves between the legs, front-loading tool rack, perforated panels. Overall: 67x48x20-in. deep.

84 A 2921 R—Ship. wt. 90 lbs. 104.99

B 24-in. wide unit like (A) but with one drawer and one cabinet. Overall: 67x24x20-in. deep.

84 A 2920 A—Ship. wt. 51 lbs. 65.99

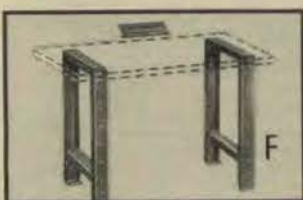
C Corner unit mounts between 2 free-standing units. Perforated panels and 24x24-in. work surface.

84 A 2919 A—Ship. wt. 28 lbs. 21.99

D Portable unit similar to (A)-(C). Two 9-in. hinged drop panels extend ¼-in. thick work surface to 48-in. wide. Includes 30x10x5-in. deep cabinet, shelves, one drawer, perf. panels, locking casters. 62x32x21-in. deep.

84 A 2924 R—Ship. wt. 65 lbs. 72.99

Build your own bench with our steel legs



F Steel leg kit comes complete with illustrated plans showing how to build a heavy-duty workbench from one 4-ft. x 8-ft. sheet of plywood. Great for home or shop use.

LEGS: All steel with electrical knockouts, 32-in. high. Includes 12-in. two-level tool rack.

84 A 2966 M—Wt. 28 lbs. 18.95



Budget home workshop bench 39⁹⁹

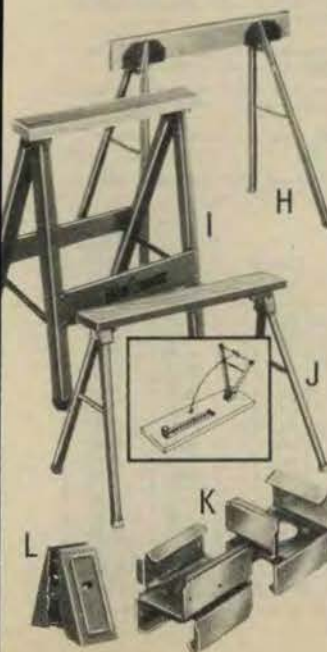
G Complete workbench for the home workshop.

FEATURES: Heavy-gauge steel legs with electrical knockouts, crossbraces, perforated hardboard back panel, 24x48x½-in. thick compressed high-impact board top, 12-in. double row tool rack, 6 clear plastic containers to store small parts, handy lower shelf.

INCLUDES: Assembly hardware and easy-to-follow instructions... an adjustable wrench and screwdriver is all you'll need. Tools shown are not included.

84 A 2934 R—Ship. wt. 43 lbs. 39.99

Sawhorses, brackets and clamps



H All steel sawhorse legs support up to 1,500 lbs. Gray enamel finish. Instantly locks in 2x4 board (not included) when spread. Package of 2.

84 A 2948 M—24-in. Wt. 7 lbs. 7.99

84 A 2949 M—30-in. Wt. 8 lbs. 10.89

I Portable folding sawhorse. Use as a regular sawhorse or in pairs to support picnic table, etc. Use as barricades too. Has steel legs, cross braces, 2x4 wood top. Easy to assemble. 19x24x30 in. high. Ship. wt. 13 lbs.

84 A 4016 M ea. 13.95; 2 for 26.99

J Folding sawhorse supports up to 1,000 lbs. Has 4½-in. wide metal work surface. Top conveniently pre-drilled for placement of wood board. Folds flat (see insert) for compact storage and easy carrying. Has pre-drilled hanging holes. Includes protective plastic end caps. 30x29-in. high. Ship. wt. 14 lbs. ea.

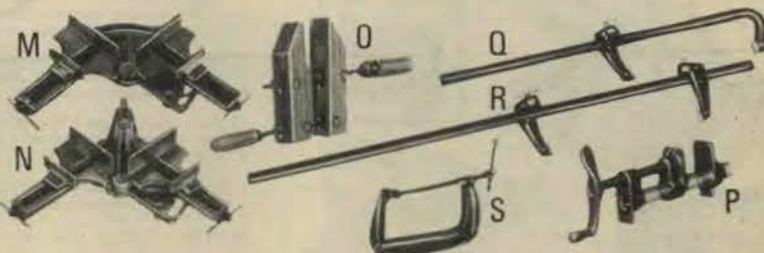
84 A 999 M ea. 18.99; 2 for 36.99

K Saw Buck™ brackets for use with 2x4's. Special V-design gives you more uses than standard sawhorse brackets. Folds for easy transportation. Package of 2.

84 A 6999—Ship. wt. 2 lbs. 5.29

L Heavy-duty steel sawhorse brackets quickly converts 5 pieces of lumber into a sawhorse. Securely locks 2x4 board (not included) together. Package of 2.

84 A 4015—Wt. 5 lbs. 5 oz. 5.89



M Corner gluing clamp. Designed for picture or window, screen framing. Open 3-in. wide.

84 A 3175—Ship. wt. 8 oz. ea. 3.99

SAVE \$2 on set of 4 clamps—one (M), 3 (N).

84 A 3152—Wt. 2 lbs. 8 oz. Sep. 16.96; set 14.96

N Adjustable mitre gluing clamp. For cuts up to 45°, angle joints.

84 A 3178—Ship. wt. 14 oz. ea. 4.99

O Adjustable hand screw. Steel spindle, maple jaws.

2 84 A 3153—State inch size.

8-inch jaws. Wt. 2 lbs. 8 oz. 9.59

10-inch jaws. Wt. 3 lbs. 4 oz. 10.59

12-inch jaws. Wt. 5 lbs. 13.59

P Pipe-bar gluing clamp (pipe not incl.). For ¾-in. diameter pipe. Large handle. 2-piece set. Ship. wt. set 1 lb. 13 oz.

84 A 3151 ea. 7.99; 2 for 13.99

½-in. diameter pipe. T-handle. Wt. 1 lb. 13 oz.

84 A 3166 ea. 5.79; 2 for 9.99

Q,R Instant action clamps feature novel ratchet system which allows easy positioning of the sliding jaws in confined areas. On 36-in. model, arms can be reversed to cause outward spreading pressure like spreading jack. Holds flat, round or tapered work pieces. Includes plastic jaw pads. 2¼-in. throat depth. Made in England.

(Q) 84 A 5467—12-in. jaws. Wt. 1 lb. 8 oz. 7.49

(R) 84 A 5488—36-in. jaws. Wt. 2 lbs. 8 oz. 10.99

S Malleable iron "C" clamps. Reinforced "I" beam corners.

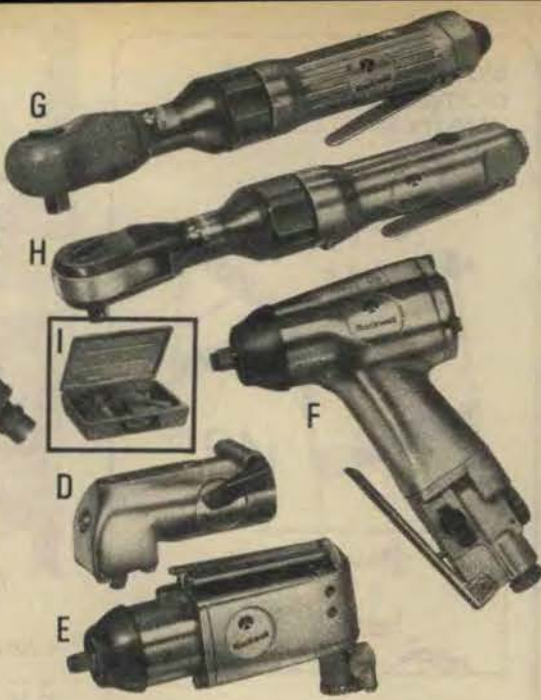
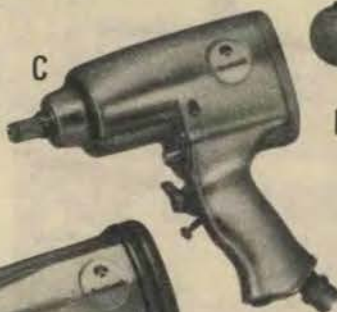
2 84 A 3162—State inch size.

Size	Depth	Wt. ea.	Ea.	2 for
1 in.	1 in.	3 oz.	1.39	2.69
2 in.	1 in.	4 oz.	1.89	3.69
3 in.	2 in.	13 oz.	3.39	6.69
4 in.	3 in.	1 lb. 11 oz.	5.29	10.49
5 in.	3½ in.	2 lbs. 4 oz.	6.29	12.49
6 in.	3½ in.	3 lbs. 3 oz.	7.19	14.29
8 in.	4 in.	5 lbs.	9.59	19.09

SAVE 20% on Rockwell air tools when you buy two or more

Order air compressors for
these tools on pages 774-776, 778

Wrenches



Sanders



Order all air tools from chart below except for accessories which are sold here. All tools covered by Manufacturer's Warranty, see pg. 605.

A 1/2-in. professional impact wrench has 100% ball bearings, rubber scuff guards, built-in air regulator, patented roller cam impact mechanism, and combination thru hole and ring-type anvil. Reversible. Order #91022 below.

B 1/2-in. professional impact wrench has 100% ball bearings, built-in regulator, patented roller-cam clutch, and is reversible. Order #91015 below.

IMPACT WRENCH like (B) with 2-in. extended anvil. Order #91018 from chart below.

C 1/2-in. impact wrench like (B) but with trigger air regulator. No scuff guards. Order #91017 below.

IMPACT WRENCH like (C) with 2-in. extended anvil. Order #91018 from chart below.

PROTECTOR BOOT for (C). Order #91019 below.

84 A 91505—Ship. wt. 8 oz. 4.99

1 1/2-IN. FLIP SOCKET for (B) and (C). Order #91501—Ship. wt. 6 oz. 6.49

ACCESSORY KIT FOR (B) and (C). Eight pieces: 1/4-in. hex sockets, motor oil, and case. Order #91507—Ship. wt. 4 lbs. 8 oz. 39.95

D 1/2-in. right-angle attachment for wrenches (E) and (F) has positive cam-lock attachment, ring-type anvil. Order #91005—Ship. wt. 1 lb. 49.95

E 1/2-in. palm grip impact wrench has butterfly throttle, ring-type anvil, built-in regulator, and is reversible. Order #91004 below.

F 1/2-in. angle-head impact wrench is only 5 1/2 in. wide... great for working in tight areas. Has rubber nose piece, built-in air regulator, roller-cam impact mechanism, and is reversible. Order #91003 below.

G 1/2-in. professional ratchet wrench has rear exhaust, ball detent anvil, ground ratchet head mechanism, rubber scuff guard and is reversible. Order #91021 below.

H 1/2-in. ratchet wrench has 100% ball/needle bearings, ball detent socket retainer, and is reversible. Order #91006 below.

I Accessory kit for (G) and (H). Eight hex sockets 1/4-in. 1/2-in. sparkplug socket, universal joint, 3-in. extension, motor oil, and storage case. Order #91506—Ship. wt. 4 lbs. 8 oz. 39.95

J 6-in. professional dual-action random orbital sander has balanced ball-bearing construction, 1/4-in. diameter orbit stroke, built-in regulator, 6-in. pad. Order #91025 below.

K 6-in. dual-action orbital sander. Built-in regulator. Order #91019 below.

6-IN. REPLACEMENT SANDING PAD for (K). Order #91502—Ship. wt. 8 oz. 6.49

6-IN. SANDING DISCS for (J), (K). Aluminum oxide. All sold in three packages of five discs except #89616. Apply with cement sold here. The lower the number, the coarser the grit.

84 A 89621—320/a. Ship. wt. 6 oz. 4.17

84 A 89620—220/a DISCS. Ship. wt. 6 oz. 4.17

84 A 89619—180/a DISCS. Ship. wt. 8 oz. 4.17

84 A 89618—100/c DISCS. Ship. wt. 8 oz. 4.47

84 A 89617—80/d DISCS. Ship. wt. 8 oz. 4.47

40/d SANDING DISCS. Three packages of four. Order #89616—Ship. wt. 8 oz. 4.47

TUBE OF CEMENT for applying above sanding discs above. Order #89615—Ship. wt. 6 oz. 2.19

L 3 3/4x9-in. orbital sander. Palm grip throttle built-in regulator, positive-lock abrasive clamps. Order #91010 below.

M 5-in. sander has 100% ball bearings, trigger throttle. Order #91020 below.

4 1/2-IN. EXTRA BACKING DISC for (M). Order #91503—Ship. wt. 4 oz. 1.49

5 1/2-IN. BACKING DISC for (M). Order #91504—Ship. wt. 6 oz. 1.49

N 7-in. horizontal sander has built-in speed regulator, ball-bearing construction, side handle, heavy-duty gearing, and includes 7-in. pad. Order #91023 below.

O Professional long barrel chisel has universal spring-type tool retainer. Accepts 401-in. Parker taper shank chisels. Built-in air regulator. 2000 BPM, 3 1/2 in. stroke. Includes four chisels. Order #91027 below.

P Chisel like (O) with trigger throttle, delivering 3500 BPM, 2 1/2 in. stroke. 4 chisels Order #91026 below.

Q Short chisel like (P) with 5000 BPM, 1 1/2 in. stroke. Includes 4 chisels. Order #91013 below.

R Chisel kit includes 5 chisels, oil, and storage case. Order #91500—Ship. wt. 4 lbs. 12 oz. 39.95

S 1/2-in. drill with pistol-grip, 100% ball/needle bearings, spur-gear drive. Order #91007 below.

Chisels



Drills

Tool	Drive	Maximum torque	RPM	Air needed*	Catalog number	Ship. wt.	Each	2 or more each
A	1/2 in.	600 ft/lbs	5000	12 CFM @ 90 PSI	84 A 91022 D	10 lbs. 8 oz.	299.95	239.98
B	1/2 in.	350 ft/lbs	7500	4 CFM @ 90 PSI	84 A 91015 D	5 lbs. 13 oz.	109.95	87.88
(not shown)	1/2 in.	350 ft/lbs	7500	4 CFM @ 90 PSI	84 A 91016 D	6 lbs.	114.95	91.88
C	1/2 in.	225 ft/lbs	8000	6 CFM @ 90 PSI	84 A 91017 D	5 lbs. 8 oz.	79.95	63.88
(not shown)	1/2 in.	225 ft/lbs	8000	6 CFM @ 90 PSI	84 A 91018 D	5 lbs. 8 oz.	84.95	67.88
E	1/2 in.	60 ft/lbs	11,000	3 CFM @ 90 PSI	84 A 91004 D	2 lbs. 8 oz.	89.95	71.88
F	1/2 in.	90 ft/lbs	9000	3 CFM @ 90 PSI	84 A 91003 D	2 lbs. 8 oz.	89.95	71.88
G	1/2 in.	150 ft/lbs	150	4 CFM @ 90 PSI	84 A 91021 D	2 lbs. 12 oz.	99.95	79.88
H	1/2 in.	45 ft/lbs	150	4 CFM @ 90 PSI	84 A 91006 D	2 lbs. 8 oz.	79.95	63.88
J		10,000	10,000	4 CFM @ 60 PSI	84 A 91025 D	5 lbs.	89.95	71.88
K		10,000	10,000	4 CFM @ 60 PSI	84 A 91019 D	4 lbs. 8 oz.	69.95	55.88
L		6000	6000	7 CFM @ 60 PSI	84 A 91010 D	4 lbs. 8 oz.	89.95	71.88
M		18,000	18,000	8 CFM @ 90 PSI	84 A 91020 D	2 lbs. 4 oz.	44.95	35.88
N		4500	4500	11 CFM @ 90 PSI	84 A 91023 D	6 lbs.	149.95	119.88
O				4 CFM @ 90 PSI	84 A 91027 D	5 lbs. 12 oz.	89.95	55.88
P				4 CFM @ 90 PSI	84 A 91026 D	5 lbs. 8 oz.	54.95	43.88
Q				4 CFM @ 90 PSI	84 A 91013 D	4 lbs.	39.95	31.88
S	1/2 in.		2800	4 CFM @ 90 PSI	84 A 91007 D	2 lbs. 8 oz.	59.95	47.88

*CFM is standard cubic feet of air consumed by tool per minute, PSI is pounds of air per sq. in. recommended for optimum tool performance. **BPM—Blows per minute. 120% off when you purchase 2 or more tools.

SAVE \$10-30 when you buy Powr-Kraft Impact wrenches with chuck

A ½-in. commercial impact wrench.
FEATURES: Built-in reversing switch ring provides equal power in forward and reverse. Anvil equipped with sealed roller bearings. Motor constructed with spiral leads which absorb vibrations. Wards Warranty.*
MOTOR: 4 amps. Ball-and-roller bearings, planetary gears. 1800 impacts per minute. ½-in. bolt capacity.
 84 A 85008 D—Wt. 8 lbs. 179.99
 When you buy with (E), ½-in. 149.99

B ½-in. heavy-duty impact wrench is compact, yet powerful enough to spin-off wheel lugs.
FEATURES: "Rocker switch" for forward and reverse allows one-hand operation, easy rotation change. No external oiling. Wrench contains high-load capacity lubricant. Wards Warranty.*
MOTOR: ½ HP, 7.7 amps. Shunted brush system. Ball-and-sleeve bearings. 2400 impacts per min. max. 240-ft.-lbs. torque. ½-in. bolt capacity.
 84 A 85007 D—Wt. 7 lbs. 8 oz. . . 119.99
 When you buy with (E), ½-in. 99.00

C ¾-in. impact wrench is designed for lawn mower engines, foreign car lug nuts.
MOTOR: ¼ HP, 3.5 amp. Reversible. 2200 impacts per minute max. 75-ft. lbs. torque.
 84 A 9262 D—Ship. wt. 5 lbs. 79.99
 When you buy with (E), ¾-in. 69.99

D Socket set for ½-in. impact wrenches. 6 sockets (½ to ¾ in.), case.
 84 A 85020—Wt. 7 lbs. 12 oz. 44.99

SOCKET SET FOR ¾-IN. IMPACTS. Six sockets (¾ to 1 ¼ in.), case.
 84 A 85021—Wt. 2 lbs. 10 oz. 29.99

E ½-in. square-drive chuck converts ½-in. impact wrenches to drills or reamers. Capacity ½ to ¾ in.
 84 A 9354 G—Ship. wt. 1 lb. 24.99

SQUARE-DRIVE CHUCK for ¾-in. impact wrenches. ¼ to ¾ in. capacity.
 84 A 9176 G—Ship. wt. 10 oz. 19.99



Industrial, home, shop grinders

F ¾-HP industrial-quality grinder.
MOTOR: Capacitor-start induction run with over-sized shaft, dynamically-balanced rotor. On/off switch. Centrifugal switch for voltage variations.
WHEELS: Two balanced 8x1-in. aluminum oxide (1 medium, 1 coarse grit) with ¾-in. arbor. Maximum wheel clearance.
HOUSING: Gray iron wheel guards, die-cast end bells. Cast-iron base. Rubber-mounted to reduce vibration. Measures 20 ¼ Wx10 ½ Dx11 ¼ in. high.
ELECTRICAL INFORMATION: 115V, 60-cycle motor, equipped with spark arrestors. 6-ft., 3-wire cord. UL listed. Meets government and OSHA standards.
 84 A 8135 R—Wt. 71 lbs. 199.00

½-HP INDUSTRIAL-QUALITY GRINDER like (F) but has 7x1-in. wheels, cast-aluminum alloy wheel guards, end bells, and base.
 84 A 8134 A—Ship. wt. 45 lbs. . . 149.00

G ½-HP industrial-quality grinder.
MOTOR: Rugged ½ HP. Sealed ball bearings. Turns 3450 RPM.
WHEELS: Two 6x¾ in. (one medium, one coarse grit). Both have protective steel-stamped guards, and end covers.
HOUSING: Two-piece adjustable tool rests for height, angle, and distance from wheels. 4x4-in. plastic eyeshields and water tray for quick "cool downs".
ELECTRICAL INFORMATION: 115V, 60-cycle motor. 6-ft., 3-wire cord. UL listed. Meets all government standards.
 84 A 8137 M—Ship. wt. 30 lbs. . . 99.00

H 5-in. home-and-shop grinder.
USE: Grinds, polishes, cleans, sharpens knives, lawn mower blades, etc.
MOTOR: 2.2 amp, 3600 no-load RPM.

Self-aligning sleeve bearings.
WHEELS: Two 5x½-in. (medium and coarse grit) plus 4x½-in. deluxe wire wheel brush.
HOUSING: Die-cast aluminum, wheel guard covers, adjustable tool rests, eye shields, water tray, rubber mounts.
ELECTRICAL INFORMATION: 6-ft. cord. 120V, AC, 60 cycle.
 84 A 89004—Wt. 11 lbs. 8 oz. 59.49
5-IN. GRINDER like (H) without wire wheel brush or water tray.
 84 A 89003—Wt. 10 lbs. 4 oz. 34.88
5-IN. HOME-AND-SHOP GRINDER KIT. CONSISTS OF: 5-in. grinder with 3.0 amp motor that does 3450 no-load RPM. Includes 5-in. sanding disc, wire wheel, and platform. For 115V, AC.
 84 A 89001—Ship. wt. 11 lbs. 59.99
FLEXIBLE-SHAFT attaches to grinder #89001, transfers power to pencil-like hand piece for firm control.
 84 A 89002—Wt. 1 lb. 8 oz. 14.99

J Belt-driven wet grinder operates in water at 130 RPM to eliminate overheating.
FEATURES: 10x1 ¼ in. wheel. Vitrified. Cast-iron housing. Includes tool rest. Requires ½-HP motor (not included, order pg. 958).
 84 A 5285 M—Wt. 24 lbs. 56.99

K Bench grinder with two 6x¾-in. wheels (med. and coarse grit).
FEATURES: Rigid gray iron frame housing. Adjustable tool rests, and spark arrestors. Two protective eyeshields. Requires ½ HP motor (not included, order pg. 958).
 84 A 5153 M—Wt. 19 lbs. 33.99
 †Maximum developed motor horsepower.



Why Drive? Phone Wards—See pages 600, 601.

Grinder accessories

L 6-in. diameter cloth buffing wheel. ½-in. arbor. State size 02. Wt. 3 oz. ea.
 Z 84 A 9314. 1.89

M 6-in. diameter wire scratch wheel. ½-in. arbor.
 State size 02. Wt. 3 oz.
 Z 84 A 2778-Fine. . . ea. 2.99
 Z 84 A 2779-Coarse. ea. 2.49

N Steel grinding wheel dresser. Wt. 1 lb. 4 oz.
 Z 84 A 5230. 4.39

CUTTER SET for (N). Order 4 sets and save! Wt. 2 oz. ea.
 84 A 5228 set 89¢; 4 sets 2.95

P ½-carat diamond-tipped wheel dresser. Wt. 7 oz.
 84 A 5237. 17.99

R Abrasive wheels of vitrified aluminum oxide, both sides balanced, dress-finished. Fine grit for cutlery, sharp-edged tools, medium-fine for drills, med. coarse for stock removal. Order at right. State size no.

Diam. width in.	Fit arbor sizes	Max. RPM	Catalog no. State size no.	Ship. wt. lbs. oz.	Fine (100 grit) No. 02	Med. fine (60 grit) No. 03	Med. Coarse (36 grit) No. 04
5x½	½, ¾ in.	4900	Z 84 A 2785	1	3.49	3.49	3.49
5x1	½, ¾ in.	4900	Z 84 A 2786	2	4.99	4.99	4.99
6x¾	½, ¾ in.	4100	Z 84 A 2787	1 11	4.99	4.99	4.99
6x1	½, ¾ in.	4100	Z 84 A 2788	2 5	5.99	5.99	5.99
7x1	¾, 1 in.	3600	Z 84 A 2789	3 8	6.99	6.99	6.99
8x1	¾, 1 in.	3450	Z 84 A 2790	4 1	7.99	7.99	7.99

Green silicon-carbide wheels. For sharpening masonry drills, carbide-tipped tools. Wear goggles. Order below.

Diam. width	Fit arbor sizes	Max. RPM	Grit	Size no.	Catalog no. State size no.	Ship. wt. lbs. oz.	Each
6x¾ in.	½, ¾ in.	4100	100	01	Z 84 A 2791	1 lb. 7 oz.	7.99
7x1 in.	¾, 1 in.	3600	60	02	Z 84 A 2792	3 lbs.	9.99

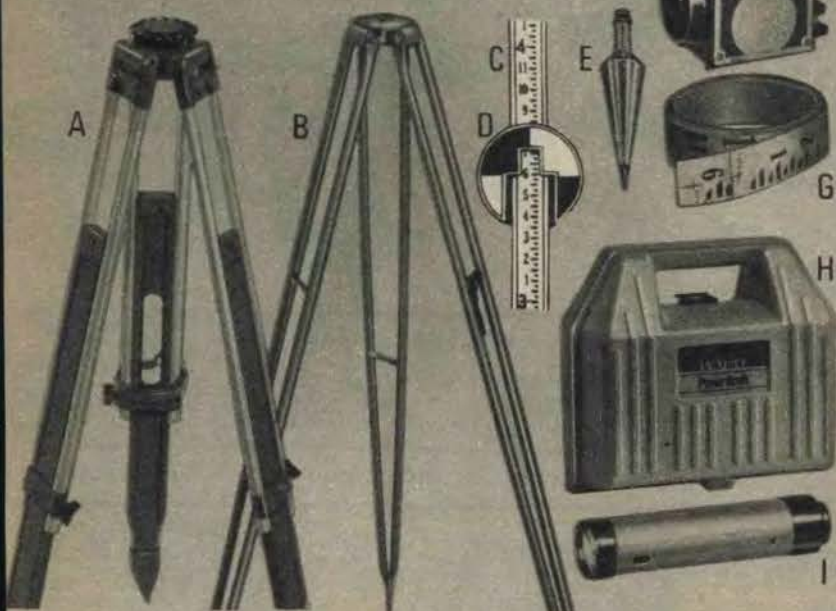
ALL WARDS 939



Surveying accessories

SAVE 10% on tripods

Deduct 10% from tripod when you order with any level-transit on opp. page



A Adjustable aluminum tripod for (U), (W), and all instruments with 3/8x8-in. threads. Extension legs lock from 36 to 59 inches.

84 A 6455 D—Ship. wt. 12 lbs. 119.99
Tripod like (A) with fixed legs, 60 in. tall.

84 A 6492 AD—Ship. wt. 9 lbs. 8 oz. 94.99

B Steel tripod fits (S) and (O) plus David White meridian instruments. 61-in. legs.

84 A 6476 AD—Ship. wt. 10 lbs. 47.99
Tripod like (B). Extendable legs from 39 to 61 in.

84 A 6478 MD—Ship. wt. 8 lbs. 67.99

C Two-section hardwood leveling rod extends from 5 ft. to 9 1/2 ft. long. Graduated in feet, inches, and eighths.

84 A 6480 M—Ship. wt. 5 lbs. 8 oz. 45.99
Engineers' rod like (C) graduated in 10ths.

84 A 6482 M—Ship. wt. 5 lbs. 8 oz. 45.99
Builders' rod like (C). 3 sections; extends to 14 ft.

84 A 6481 M—Ship. wt. 7 lbs. 7 oz. 59.99
Polyurethane version of builders' rod #6481. Wt. 5 lbs.

84 A 6499—3 sections, extends to 12 ft. 61.99

D 5-in. reversing target fits rods (C), 6482, 6481.

84 A 6483 M—Ship. wt. 4 oz. 9.99

E Solid-brass 18-oz. plumb bob.

84 A 6453—Ship. wt. 1 lb. 1 oz. 9.99

F Homeowners' level and incline measuring instrument. Indicates level, measures incline to a fraction of an inch. Also indicates how much correction is needed. Great aid in grading lawns and driveways, building patios and garages, leveling pool tables and shelves. Easily operated by one person.

84 A 6491—Ship. wt. 2 lbs. 26.99

G Rod and target tape. Self-adhesive backing. 2 pc. Measures 9 1/2 ft. by 1 1/4 in. wide.

84 A 6485—Ship. wt. 1 oz. 9.99

H Transit level carrying case for #s 6473, 6463, 6484, 6470, (X), and 6464. Bright orange double-walled polyethylene for high visibility.

84 A 6498—Ship. wt. 2 lbs. 26.99

I Hand level (Locke type). 1X magnification for sharp, wide field of vision. Vial magnified 6X for easy viewing. With vinyl carrying case. 5 in. long.

84 A 6475—Ship. wt. 8 oz. 35.99

Level like (I) but with 2.5X magnification.

84 A 6500—Ship. wt. 1 lb. 6 oz. 38.99

Non-magnifying sight level. Cross hairs. 4 1/2 in. long.

84 A 6496—Ship. wt. 4 oz. 9.99

Lietz level-transit for professional use

879⁹⁹

With tripod, case, built-in compass; we pay shipping



R TELESCOPE: Achromatic, internal focusing. Erect image, reversible and balanced on axis. 23X magnification. Field of view 1° 5 minutes. LEVELS: Telescope: Reversible. Sensitivity 60 sec. per 2 mm. Plate: 2 each level vial. Sensitivity 137 sec. per 2 mm. VERTICAL CIRCLE: 3.5 in. diam. graduated to 30 min. on alloy. Vernier double-direct reading to 1 min. HORIZONTAL CIRCLE: 4.87 in. diam. with graduations on alloy. Single vernier double-direct reading to 1 min. CONSTRUCTION: 4 leveling screws with dust-proof covers. Instrument can be rotated or held firm with clamp screw. Tangent screw for lateral movement. Non-glare black finish. Standard American plate is 3 1/2 x 8 in. Designed for professional use.

INCLUDES: Wood case and all-aluminum tripod with anodized finish which opens to 66 1/2 in. high.

ORDERING INFO.: Ship. Prepaid within U.S.A. (except Alaska and Hawaii) from factory. Allow 10 days plus transit time. See pg. 599 for general information on delivery. Write for free copy of Manufacturer's Warranty, see pg. 605.

84 A 6501 FP. 879.99



J Water level. USES: For one-man layout work. CONSTRUCTION: 50-ft. vinyl hose, 7-in. container. With coloring, instructions.

84 A 6452—Ship. wt. 2 lbs. 2 oz. 29.99

K 24-in. angle-gauge level. USES: Instant angle readings from 0° to 90°. FEATURES: Unaffected by magnetic field. Dial indicator protected by clear plastic. CONSTRUCTION: Aluminum. Two 360° shockproof vials: 1 level, 1 plumb. Powr-Kraft.

84 A 3833—Ship. wt. 1 lb. 14.99

L 78-in. LEVEL. CONSTRUCTION: Magnesium alloy (1/2 lighter than aluminum). 10 replaceable Pyrex® vials (6 plumb, 4 level), unbreakable holders.

84 A 3886 A—Ship. wt. 4 lbs. 8 oz. 43.99

M 48-in. LEVEL. FEATURES: Shock-absorbing end caps. CONSTRUCTION: Urethane/aluminum (more durable than wood). 6 Pyrex® vials: 4 plumb, 2 level.

84 A 3854 M—Ship. wt. 3 lbs. 8 oz. 36.99

N 18-in. LEVEL. Aluminum, 2 vials, no gauge.

84 A 3817—Ship. wt. 12 oz. 7.99

Levels and tapes

L 48-in. level. CONSTRUCTION: Mahogany. Brass-bound corners. 6 Pyrex® vials.

84 A 3878 M—Ship. wt. 3 lbs. 14 oz. 36.99

N 24-IN. LEVEL. Aluminum, 3 vials, no gauge.

84 A 3884—Ship. wt. 1 lb. 6 oz. 10.99

O 48-IN. LEVEL like #3884 but with 360° vials.

84 A 3882—Ship. wt. 2 lbs. 12 oz. 12.99

M Heavy-duty English/metric tape. GRADUATIONS: 8ths and mm's. English length: 165 ft.; metric: 50 meters. CONSTRUCTION: Stainless steel blade.

84 A 4099—Ship. wt. 3 lbs. 4 oz. 36.99

N 3/4-in. locking tapes with power return. In 8ths.

Z 84 A 4095—State length: 12 ft. Wt. 10 oz. 7.49; 16 ft. Wt. 10 oz. 9.29

20 ft. Ship. wt. 11 oz. 9.89

Z 84 A 4092—1/2-in. tapes like (N). State length: 12 ft. Wt. 8 oz. 5.49

Z 84 A 4080—1-in. tape like N. State length. 25 ft. Wt. 1 lb. 11.89

O Z 84 A 4098—3/4-in. tapes in 8ths. State length: 50 ft. Wt. 11 oz. 6.99; 100 ft. Wt. 1 lb. 2 oz. 10.29

Surveyors' long tape. Graduations in 10ths. 100 ft. Fiber glass/vinyl. Steel case.

84 A 4086—Japan. Ship. wt. 1 lb. 12 oz. 24.99

100-ft. tape. Graduations in 8ths. Fiber glass.

84 A 4085—Ship. wt. 1 lb. 12 oz. 24.99

ENGLISH/METRIC SURVEYORS' TAPE. Fiber glass.

84 A 4080—Japan. Ship. wt. 2 lbs. 24.99

P Optical tape measure. USES: Measures distances from 6 to 100 ft. away at 97.8% accuracy. Case.

84 A 4687—Ship. wt. 13 oz. 23.99

Optical tape measure (P) measuring 50 to 600 ft.

84 A 3004—Ship. wt. 1 lb. 44.99

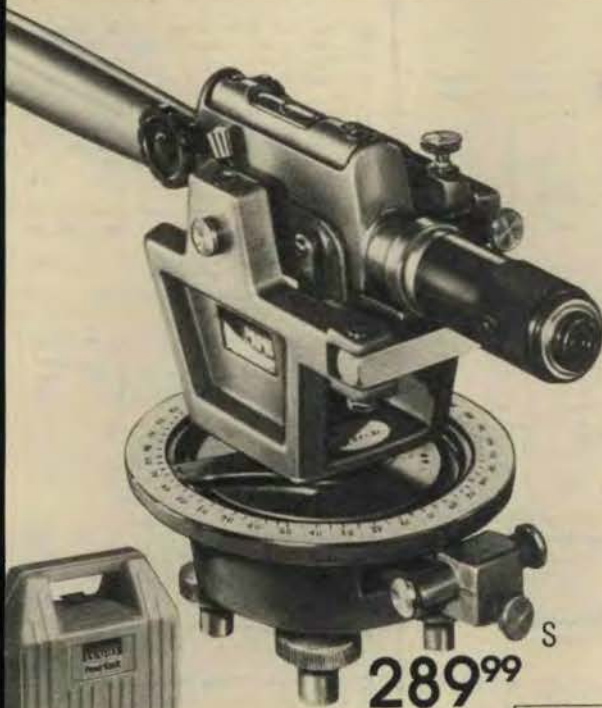
Q CUT \$2 on tapeless measure. FEATURES: Built-in counter gives digital read-out up to 1,000 ft. when rolled along flat or curved surfaces. CONSTRUCTION: Includes 32-in. black plastic handle. Priced at 8.88 in 1980 Spring Big Book, page 840.

84 A 3003—Standard. Ship. wt. 3 oz. 6.88

Powr-Kraft level-transit with zoom lens



This level features 14x22 power zoom lens—a Wards exclusive for this size instrument. Also positive lock bar converts transit to level



289⁹⁹

What instrument do you need?

INSTRUMENT	TELESCOPE	HORIZONTAL CIRCLE	LEVEL VIAL	POWER
R	Tilting	Reads to single degrees	60 sec. per 2mm	23X
S	Tilting	Reads to 1°, 5°	9-11 min. per 2mm	With zoom: 14-22X Without zoom: 18X
T	Tilting	Reads to 1°, 10° 0-90-0°	5 min. per 2mm	18X
U	Tilting	Reads to 1°, 5°, 10°	110-120 sec. per 2mm	With zoom: 24-37X Without zoom: 26X
W	Non-tilt	Reads to 1°, 5°, 10°	110-120 sec. per 2mm	With zoom: 24-37X Without zoom: 26X
X	Non-tilt	Reads to 1°, 5°	9-11 min. per 2mm	With zoom: 14-22X Without zoom: 18X

T SIGHTING RANGE: Up to 300 ft.
ACCURACY RANGE: 0 to 1/4 in. at 100 ft.
TELESCOPE: 9 1/4-in. long, 18X power, seven anti-reflection coated lenses.
VERTICAL ARC: Graduated 45° in both directions from zero.
HORIZONTAL CIRCLE: 3.66 in. diameter, graduations every 1°, vernier to 15 min.
CENTER: Steel spindle/ball bearing.
LEVEL VIAL: 5 min. per 2mm. Mirrored vial cover.
CASE: Polyethylene air-cushion design. Includes plumb bob, instructions, stiff leg 61-in. tripod. Mfr.'s Warranty.†
84 A 16461 M—Ship. wt. 23 lbs. 325.99

U David White level-transit with zoom. TELESCOPE: 12 in. Erect-image with adjustable cross-hair focus. Tilts 45° up or down. 24-37X power. Field of view at 100 ft.: 2 ft. to 1 ft. 4 in. LEVEL VIAL: 110-120 sec. per 2mm. HORIZONTAL CIRCLE: 4 in. diam. Graduations each 1°, 5°, and 10°. Vernier to 5 min. CONSTRUCTION: Solid mechanical movement supported by pre-loaded double ball-bearing centers with permanently lubricated inner and outer races. Precision machined brass horizontal/vertical clamp and tangent screws. Dual lock levers widely spaced for strong support and 3-point level alignment. Manufacturer's Warranty.†
84 A 6488 MG—Ship. wt. 19 lbs. 479.99
84 A 6458 MG—(U) with stadia.* Ship. wt. 19 lbs. 499.99
84 A 6462 MG—(U) without zoom. 26X power. Wt. 19 lbs. 419.99

V Builders' magnetic compass for transit-level (U). Reads from 0-90°. 84 A 6472—Ship. wt. 1 lb. 1 oz. 49.99

W David White contractors' level with same features as (U) except functions as level only (telescope does not tilt). For horizontal work. Manufacturer's Warranty.†
84 A 6489 MG—Ship. wt. 19 lbs. 364.99
84 A 6459 MG—(W) with stadia.* Ship. wt. 19 lbs. 384.99
84 A 6477 MG—(W) without zoom. 26X power. Wt. 19 lbs. 344.99

X Wards level with zoom. TELESCOPE: 10 1/2 in. long. 14-22X power. Field of view at 100 ft.: 2 ft. 4 in. LEVEL VIAL: 9 to 11 min./2mm. HORIZONTAL CIRCLE: 3 1/2 in. diam. with graduations each 1°, 5°. Horizontal pointer. CONSTRUCTION: Precision-ground lenses. Leveling plate rotates on bronze bearings. See Wards Warranty above.
84 A 6474 MG—Ship. wt. 7 lbs. 6 oz. 169.99
SAVE 6.00 on (X) with tripod (B). Sep. 217.98.
84 A 16474 AA—Ship. wt. 16 lbs. 211.98
(X) WITHOUT ZOOM. 18X power.
84 A 6464 MG—Ship. wt. 7 lbs. 4 oz. 119.99
SAVE \$8 on level 84A6464MG (above) with tripod (B). Sep. 167.98.
84 A 16464 AA—Ship. wt. 16 lbs. 159.98

†Write for free copy of Manufacturer's Warranty, see page 605.
*Stadia are additional cross-hairs on telescope reticle used to determine distance.

David White level-transit
479⁹⁹

U



V



David White Contractors' level
364⁹⁹



Site boss transit level with tripod
325⁹⁹



Even at 169⁹⁹
our lowest priced level with zoom is effective to 250 feet



Plumbing Place

A Powr-Kraft steel, heavy-duty pipe wrenches.

CONSTRUCTION: Heat-treated handles, forged-steel jaws. Meet or exceed government specification GGG-W-65, type II, class A. From Taiwan. Precision milled teeth. State length.

Length	Pipe cap	Number	Lbs. oz.	Each
10-in.	1½-in.	Z 84 A 6254	1 8	8.99
14-in.	2-in.	Z 84 A 6254	3 8	11.99
18-in.	2½-in.	Z 84 A 6254	5 8	14.99
24-in.	3-in.	Z 84 A 6254 M	11 4	27.49

B All-purpose wrench with quick-sliding adjustment.

CONSTRUCTION: Bright-plated malleable iron. 1 to 3 in. capacity. Jaws specially notched for use on strainer lock nuts.

84 A 6213—Ship. wt. 1 lb. 10 oz. 8.49

C Strap wrench. **CONSTRUCTION:** Heavy malleable iron body. Latex-treated nylon web. High-tensile strength. 2-in. I.P.S. capacity. 7 inches long.

84 A 6212—Ship. wt. 1 lb. 10 oz. 6.99

D Standard-weight sewer rod.

CONSTRUCTION: ½-in. thick flat oil-tempered spring frame.

Size	Catalog no.	Lbs. oz.	Each
25 ft. x ½-in.	84 A 6344 M	3 12	11.99
50 ft. x ½-in.	84 A 6358	7	14.49
75 ft. x ½-in.	84 A 6360 M	15	27.49
100 ft. x ½-in.	84 A 6359 M	18	33.99

E Angle tapered seat wrench gives positive grip, prevents stripping.

CONSTRUCTION: Hardened steel. "L" shape gives just the right angle for removing or inserting all types of faucet seats.

84 A 6211—Fits square or hex holes. Ship. wt. 8 oz. 4.49

F Heavy-duty pipe cutters are accurate and smooth. Saunders type.

CONSTRUCTION: Hardened rollers, tool-steel cutting wheel.

No. 1: Cuts ¼ to 1-in. pipe.

84 A 6298—Ship. wt. 4 lbs. 21.99

No. 2: Cuts ¼ to 2-in. pipe.

84 A 6299—Ship. wt. 7 lbs. 4 oz. 31.99

EXTRA CUTTER WHEELS FOR (F). From Japan.

84 A 6283—For No. 1. Ship. wt. 4 oz. 5.29

84 A 6284—For No. 2. Ship. wt. 5 oz. 5.49

G Drain auger cleans stopped drains and traps.

CONSTRUCTION: High-tensile, ½-in. thick spring wire. Ship. wt. (25 ft.) 6 lbs., (50 ft.) 10 lbs. 8 oz.

84 A 6355—25 ft. long. 11.89

84 A 6356—50 ft. long. 13.89

H Our lowest-priced auger. Fast-spin action.

CONSTRUCTION: ¾-in. high tensile wire stores in drum.

84 A 4226—10 ft. Ship. wt. 1 lb. 8 oz. 4.99

84 A 6351—15 ft. Ship. wt. 4 lbs. 11.99

84 A 6350—25 ft. Ship. wt. 5 lbs. 18.99

I Basin wrench. **FEATURES:** Jaws work at right angles, 180° range. Self-adjusting to fit standard basin slip or lock nuts.

84 A 6258—Ship. wt. 1 lb. 8 oz. 5.89

J Deluxe spring-steel auger with gear drive. Plows through waste, loosens stubborn stoppage.

CONSTRUCTION: ¼ in. x 25 ft. long. High speed gear drive turns sharp corners. Self-storing steel canister.

84 A 6352—Ship. wt. 5 lbs. 13 oz. 22.99

K Toilet plunger. High-grade rubber, wood handle.

84 A 6362—Ship. wt. 1 lb. 15 oz. 3.99

L Copper tubing kit with plastic case.

CONSISTS OF: Double-roller cutter for up to 1½-in. O.D., 5 tubing springs for up to and including ¾-in. O.D., flaring tool for ¾, 1, 1½, 2, 2½, 3, 3½, 4, 4½, 5, and 5½-in. O.D. tubing, and plastic case or pouch.

84 A 6370—Ship. wt. 6 lbs. kit 26.99

M Flaring tool.

CONSTRUCTION: Hardened steel flaring point. Self-centering forged steel bridge. Ball bearing action point.

FEATURES: Flares ½-in., ¾-in., 1-in., 1½-in., 2-in., 2½-in., 3-in., 3½-in., 4-in., 4½-in., 5-in., 5½-in., O.D. 45 flares are made in accordance with S.A.E. standards on soft copper, aluminum or brass tubing.

84 A 6327—Ship. wt. 2 lbs. 4 oz. 12.89

N Chain-pipe vise fits ½ to 2-in. pipe.

CONSTRUCTION: Flat-link steel chain. Fits vise stand (O).

84 A 6282—Ship. wt. 5 lbs. 28.99

O Self-locking plumbers' vise fits up to 2-in. pipe.

CONSTRUCTION: Malleable iron frame. Heat-treated tool steel, replaceable jaws, milled teeth. Hinged for easy removal. Fits vise stand (P). Made in Japan.

84 A 6277 M—Ship. wt. 10 lbs. 29.99

P Pipe vise stand for (N), (O).

CONSTRUCTION: Malleable iron. 41-in. folding legs.

84 A 6273 A—Ship. wt. 15 lbs. 55.99

Q 10-pc. pipe threader kit.

FEATURES: Double-action ratchet which speeds work. Dies start easy, cut fast and clean.

CONSTRUCTION: Malleable iron. Dies heat-treated after machining. Enamel finish overall.

CONSISTS OF: 20-in. double-action ratchet with sure-grip knurled handle, four 2½x2½-in. tool steel block dies (½, ¾, 1 and 1½ in.), 3 guides, carrying case, and cutting oil.

84 A 6243—Ship. wt. 14 lbs. kit 99.99

R 8-pc. pipe threader kit (not shown).

CONSISTS OF: 18-in. single-action ratchet with sure-grip knurled handle, three 2x2-in. dies (½, ¾ and 1 in.), 2 guides, carrying case, and cutting oil.

84 A 6242—Ship. wt. 11 lbs. 79.99

S 5-pc. pipe threader kit.

CONSISTS OF: Iron threader, two 2x2-in. dies (½ and ¾ in.), 1 guide, and cutting oil.

84 A 6241—Ship. wt. 6 lbs. 49.99

Carpentry

A Aluminum rafter square (100ths scale) has Essex, brace, octagon tables. In 8ths, 12ths, and 16ths, 16x24 in.

84 A 3840 M—Ship. wt. 13 oz. 13.89

B 12-in. Powr-Kraft combination square is a rule, tri-square, miter square, angle finder. Reads any angle, checks true horizontal and vertical, lays-off 45 and 90° angles.

84 A 5004—Ship. wt. 2 lbs. 9.49

C 12-in. Powr-Kraft combination square has metric, standard readings. 45, 90° angles. Includes scriber and level.

84 A 5034—Ship. wt. 1 lb. 6 oz. 6.49

D Powr-Kraft hand planes. Precision machined with adjustable locking feature.

Type	Lgth.	Cut	Cat. no.	Ship. wt.	Each
Jack	14 in.	2 in.	84A3513	4 lbs. 8 oz.	23.89
Smooth	9 in.	2 in.	84A3510	3 lbs. 8 oz.	21.49
Block	6¼ in.	1½ in.	84A3536	1 lb. 8 oz.	12.89

E New "Shaping" tools.

84 A 3538—10-in. plane. Wt. 1 lb. 6.99

84 A 3518—2½-in. shaper. Wt. 5 oz. 2.99

84 A 3519—5½-in. plane. Wt. 9 oz. 3.99

Replacement blades for Shaping tools:

84 A 3544—2½-in. blade. Wt. 3 oz. 1.79

84 A 3545—5-in. blade. Wt. 5 oz. 1.89

84 A 3546—10-in. blade. Wt. 5 oz. 2.09

10-in. half-round blade for auto body work.

84 A 3548—Ship. wt. 5 oz. 2.09

F Set of 6 auger bits. ¼ to 1 in.

84 A 3621—Ship. wt. 1 lb. 8 oz. 22.99

G 2-jaw chuck bit brace. Wood grips.

84 A 3847—Ship. wt. 2 lbs. 6.49

H Powr-Kraft heavy-duty bit brace. Nickel plated ½-in. steel frame. 10-in. sweep.

84 A 3607—Ship. wt. 2 lbs. 8 oz. 22.99

I Dowling jig has ¾ to ½-in. alloy steel guides.

84 A 3672—Ship. wt. 1 lb. 6 oz. 16.49

J Handsaw set. Sets saws having 5 to 11 teeth per inch.

84 A 4007—Ship. wt. 1 lb. 7.89

K Powr-Kraft hand drill has 2 position handle, ¼-in. chuck. 8 bits (½ to 1¼ in.) store in handle. 11½ in. long.

84 A 3709—Ship. wt. 1 lb. 2 oz. 12.89

L 8½-in., 2-piece expansive bit. Cuts holes ¼ to 3 in. diameter. 2 interchangeable cutters. From Spain.

84 A 3668—Ship. wt. 6 oz. 10.89

M Powr-Kraft professional-quality saws have 26-in. long nickel-chrome steel blades. 4-gauge, taper ground. Walnut stained, laminated hardwood handles. Vinyl blade guards. State teeth per inch (below). Wt. 2 lbs. each.

Saw	Filed	Teeth per in.	Cat. no.	Each
Crosscut	Bevel	8	Z 84 A	15.89
Crosscut	Bevel	10	Z 84 A	15.89
Rip	Straight	5	3936 M	15.89

N Flat-ground handsaw. Plastic handle. 26-in.

84 A 3958—Ship. wt. 2 lbs. 8.89

O 5-in-1 saw has 5 interchangeable blades: 16-in. panel, 12-in. compass, 15-in. pruning, backsaw, and keyhole.

84 A 3961—Ship. wt. 1 lb. 8 oz. 8.99

P 3-in-1 bow saw. Steel frame is 24 inches, expands (with inserts) to 30 and 36 in. Does not incl. blades; order blades below. Japan.

84 A 3939—Ship. wt. 2 lbs. 8.88

84 A 4008—24-in. blade. Wt. 4 oz. 2.49

84 A 4009—30-in. blade. Wt. 6 oz. 2.59

84 A 4010—36-in. blade. Wt. 8 oz. 2.69

Q Web belt for all pouches below. 2½ in. wide. Adjusts to 46 in.

84 A 4146—Ship. wt. 8 oz. 4.89

R Large 5-pocket leather nail, tool bag.

84 A 4163—Ship. wt. 12 oz. 20.99

S Electricians' leather pouch. 5 pockets. Tape and hammer holder.

84 A 4183—Ship. wt. 1 lb. 17.99

T Our most popular 2-bag carpenters' apron. Top-grain ball glove leather.

84 A 4173—Ship. wt. 1 lb. 14 oz. 38.99

U Two-bag suede apron. Comes with steel tape holder.

84 A 4199—Wt. 2 lbs. 4 oz. 28.99

V Our best leather 2-bag carpenters' apron with belt, tape holder, plier pocket, 4 nail pockets, 2 small tool pockets, 4 pencil slots, 2 hammer holders.

84 A 4149—Ship. wt. 2 lbs. 55.99

Man-made 2-bag apron of leather-like material.

84 A 13503—Wt. 2 lbs. 8 oz. 18.99

Even at 4⁹⁹
our lowest-priced
auger has fast-
spin action

essentials

- W** Canvas apron. Full-front coverage, 14 pockets.
84 A 4176—Ship. wt. 7 oz. 4.59
- X** Gouge slipstone sharpens curved edges in and out. Fine grit. Oil filled.
84 A 89905—Ship. wt. 9 oz. 7.89
- Y** 12-pc. knife chest. Three heavy-duty knives with blades, eight extra blades. Wood case.
84 A 5603—Ship. wt. 13 oz. 6.99
- Z** X-acto deluxe hobby tool and knife chest. Assortment of hobby tools, knives, high-carbon blades, block plane screwdrivers, C-clamps, pliers, hand drill, bits tweezers, files, bench vise sander set, X-acto work shop guide, in fitted wooden cabinet with handle. Cabinet measures 14x10x3½-in.
84 A 5634—Wt. 6 lbs. 8 oz. 63.99
- AA** 3-pc. chisel set. Sizes ¼, ½, 1-in. blades. Pouch.
84 A 2063—Ship. wt. 1 lb. set 6.89
- BB** Powr-Kraft 6-pc. chisel set. Drop-forged steel, precision-ground blades. Sizes ¼, ½, ¾, 1, 1½, 2-in. with impact-resistant handles. With pouch.
84 A 3593—Ship. wt. 1 lb. 9 oz. set 24.99
- 4-pc. chisel set. Sizes ¼, ½, ¾, 1 in.
84 A 3590—Ship. wt. 1 lb. 9 oz. set 17.99
- CC** Powr-Kraft 8-pc. professional size wood carving set. Includes chisels, gouge, bent chisel, bent gouge, parting tool. Sizes ¼ to ½ in. Wood handles. 10-in. overall length.
84 A 3580—Ship. wt. 1 lb. 11 oz. set 46.99
- DD** Hobby tool set. Assortment of blades, gouges, routers. Also includes X-acto planer, sander, spoke shave, and balsa stripper.
84 A 5614—Ship. wt. 2 lbs. set 19.99
- EE** Gooseneck wrecking bar. ¾x30-in. drop forged steel. Slotted claw/chisel end.
84 A 4154 M—Ship. wt. 4 lbs. 4 oz. 7.89
- FF** Wizard Bar ¾-in. x 24-in. wrecking bar with double claw and rocker head. Use for corners, nooks.
84 A 5657—Wt. 4 lbs. 5.99
- GG** Utility hatchet has 12-in. hickory handle. 3¼-in. cut. Octagon-shaped face.
84 A 3716—Ship. wt. 2 lbs. 9.99
- HH** All-steel campers' hatchet. 20-oz. polished head has beveled face, gives 3¼-in. cut. 13¼-in. steel handle. Includes sheath.
84 A 3717—Ship. wt. 2 lbs. 13.99
- II** Firewood splitter. splits logs at opposing angles into several pieces; fast and easy.
84 A 39238—Wt. 4 lbs. 8 oz. 9.99
- JJ** Splitting wedge. Hand-forged carbon steel.
84 A 7088—Ship. wt. 5 lbs. 6.89
- KK** Wood-splitting mauls. Forged-steel heads, 36-in. hickory handles. Extra handles listed under (RR).
84 A 3783 M—6-lb. Wt. 7 lbs. 8 oz. 17.49
84 A 3722 M—8-lb. Wt. 9 lbs. 5 oz. 19.49
- LL** Professional quality axes. 3½-in. forged steel. Flame-hardened 36-in. hickory handle. Burst-bevel face. Ship. wt. 5 lbs. 4 oz. each.
84 A 3720 M—Single bit 19.49
84 A 3721 M—Double bit 20.99
- MM** Axes similar to (LL) but not beveled, 36-in. handle.
84 A 3776 M—Single bit. Wt. 4 lbs. 13 oz. 14.49
84 A 3784 M—Double bit. Wt. 4 lbs. 13 oz. 15.49
- 36-in. single-bit hickory replacement handle for (LL) or (MM).
84 A 3730—Incl. wedges. Ship. wt. 1 lb. 6 oz. 4.49
- 36-in. double-bit hickory replacement handle for (LL) or (MM).
84 A 3729—Incl. wedges. Ship. wt. 1 lb. 6 oz. 4.49
- NN** Chopper 1" is a log-splitting axe that splits most logs on the first stroke and virtually never gets stuck. The axe-head has "splitting levers" that push log apart as blade slices into it. Spring-action in levers helps keep head from sticking. A real time saver!
84 A 5726 M—Ship. wt. 10 lbs. 33.99
- Chopper 1" axe (like above) but with unbreakable fibre core handle.
84 A 5728—Wt. 8 lbs. 39.99
- OO** Powr-Kraft ball-peen hammers. Forged, heat-treated steel. Tempered on face,peen. Flame-hardened hickory handles.
- | Head wt. | Cat. no. | Ship. wt. | Each |
|----------|-----------|-------------|------|
| 8 oz. | 84 A 3688 | 14 oz. | 5.89 |
| 12 oz. | 84 A 3689 | 1 lb. 2 oz. | 6.19 |
| 16 oz. | 84 A 3690 | 1 lb. 6 oz. | 6.89 |
| 24 oz. | 84 A 3691 | 2 lbs. | 7.39 |
- PP** Engineers' hammers. Forged heads, hickory handles.
84 A 3692—32-oz. head. Ship. wt. 2 lbs. 10 oz. 9.29
84 A 3693—40-oz. head. Ship. wt. 3 lbs. 2 oz. 9.69
- QQ** Powr-Kraft tubular steel hammers. Handles absorb shock. Non-slip grip. Steel head is ground-polished, rim-tempered, drop-forged.
84 A 3675—16-oz. claw. Ship. wt. 1 lb. 8 oz. 10.99
84 A 3678—20-oz. rip. Ship. wt. 1 lb. 12 oz. 12.99
- RR** Forged steel sledge hammer. 8-lb. head, machine finished, rim-tempered face, 32-in. hickory handle.
84 A 3696 M—Ship. wt. 9 lbs. 18.99
- Hammer (RR) with 10-lb. head.
84 A 3697 M—Ship. wt. 11 lbs. 4 oz. 21.99
- Extra 36-in. hickory handle fits (KK) and (RR).
84 A 3728 M—Ship. wt. 3 lbs. 4.49



Powder-actuated hammer Quick, easy to use



27⁹⁹

Fastens, wood, concrete, steel, cement instantly!

Makes fastening fast and easy—one blow fastens wood to concrete—saves time and trouble.

USES: Install paneling, attach furring strips, mount electrical boxes on concrete walls, hang mailboxes, mount shutters. Makes it easy to install iron and aluminum railings, shelving, fencing, awnings, conduit.

HOW IT WORKS: Load, then strike with standard household hammer—one blow fastens instantly!

CONSTRUCTION: Hard steel, high-impact-resistant plastic handle for easy grip. UL listed.

ORDERING INFO: Refer to application chart (at right) to determine which pins and powder loads to order. Order both in boxes of 100 from table (far right). All pins are heat-treated, zinc-coated, strong, durable steel. Holding discs for controlled penetration applications.

84 A 9522—Ship. wt. 2 lbs. 9 oz. each 27.99

APPLICATION CHART

Recommended Pin	Recommended Crimp Power Load	Application
9546-2½-in.	9549-Heavy	2x4-in. wood to cement block
9546-2½ in.	9550-Extra heavy	2x4-in. wood to concrete
9545-2-in.	9549-Heavy	1-in. plywood to concrete
9544-1½-in.	9548-Medium	1x2-in. wood furring to cement block
9544-1½-in.	9549-Heavy	Awnings and shutters to horizontal mortar joints
9544-1½-in.	9550-Extra heavy	1x2-in. wood furring to concrete
9543-1¼-in.	9549-Heavy	1x2-in. wood furring to ¼-in. steel
9542-1-in.	9549-Heavy	Electric box, mail box to cement block
9542-1-in.	9550-Extra heavy	Shelf bracket, elec. box to concrete
9541-¾-in.	9550-Extra heavy	Electric box to concrete
		Electric conduit clip to concrete

BULK-PACK PINS. 100 per box.

Cat. no.	Size	Lbs. oz.	Box	Any 2 or more
84A9546	2½-in.	1 7	13.99	13.49 ea.
84A9545	2-in.	1 4	13.49	12.99 ea.
84A9544	1½-in.	15	12.49	11.99 ea.
84A9543	1¼-in.	14	9.99	9.49 ea.
84A9542	1-in.	12	8.49	7.99 ea.
84A9541	¾-in.	10	7.49	6.99 ea.

PKG. OF 100 HOLDING DISCS.

84A9551—Ship. wt. 1 lb. 5.49

BULK-PACKED POWER LOADS. 100 per box.

Cat. no.	Strength	Wt.	Box	2 or more
84A9550	Extra heavy	5 oz.	8.49	7.99
84A9549	Heavy	5 oz.	8.49	7.99
84A9548	Medium	4 oz.	8.49	7.99
84A9547	Light	4 oz.	8.49	7.99



A USES: Ideal for automotive, industrial, farm, and marine use in dragging, lifting, raising, or lowering jobs.

FEATURES: Portable. Designed to operate under the most rugged conditions. Lifts 10 ft.

CONSTRUCTION: Triple spurgeared. Permanently lubricated precision needle bearings. Heat-treated for long life. Made in Japan.

84 A 9731 M—½-ton capacity. Wt. 28 lbs. 109.99

84 A 9732 M—1-ton capacity. Wt. 31 lbs. 129.99

B FEATURES: Lift like hoists, pull like winches. Have easily removable drop-forged slip hooks for attaching clamps, other accessories. Double safety ratchet system guards against accidental release.

CONSTRUCTION: Aircraft-test cable, galvanized to protect against rust. Aluminum-high alloy ratchet teeth and drum. Made in Japan. Wts.: 9749, 8 lbs.; 9750, 9 lbs.

Rec. Capacity	Max. lift	Lev. ratio	Catalog number	Each
1000 lbs.	12 ft.	18 to 1	84 A 9749 M	31.99
2000 lbs.	6 ft.	36 to 1	84 A 9750 M	38.99



E These cabinets help keep small hardware parts from becoming big messes.

C CUT \$2. 25-drawer cabinet with over 2000 parts. Sturdy steel, 12x5x9-in. high; with plastic drawers. Includes these parts: machine screws; sheet metal screws; wood screws; machine bolts, hex nuts, lock and flat washers, machine screw nuts, and assortment of tacks, nails. Cut from '80 Spring Bk.

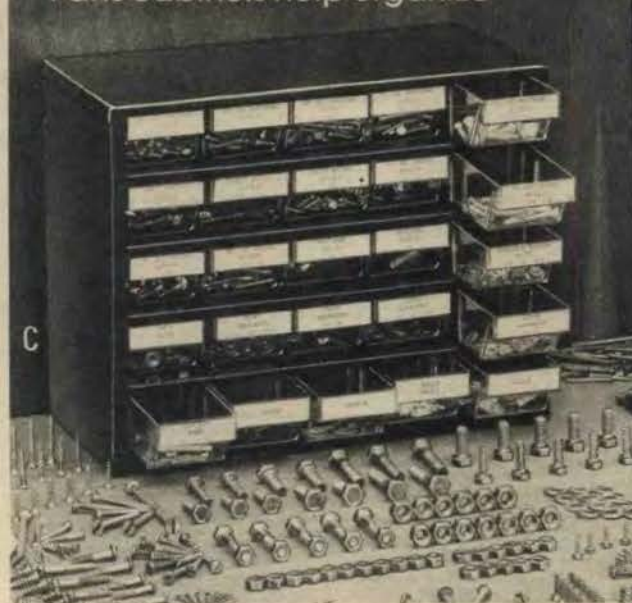
84 A 619—Ship. wt. 10 lbs. . . Was 24.99; now 22.99

CUT \$2. 34-DRAWER PARTS CABINET (not shown) with 2,500 pieces. Cabinet is 12x6x16-in. high. Like above with 30 parts drawers plus 4 larger drawers. Same parts as above, plus: anchors, corrugated fasteners, staples, cup hooks, hobby nails. Cut from Spr. Bk., pg. 828.

84 A 618—Ship. wt. 15 lbs. . . Was 34.99; now 32.99

D Portable revolving organizer. Includes 52 kinds of fasteners (screws, washers, nails, etc.) totalling over 1,000 pieces. 12 bins. Measures 14x8½x14-in. 84 A 650—Ship. wt. 6 lbs. 15.99

Parts cabinets help organize



E CABINET: 35 drawers in 3 sizes. Fully-welded steel frame with steel shelves. Includes dividers for smaller drawers, protective, non skid feet. Cabinet measures 12x5¼x16½-in. high.

84 A 4334 M—Wt. 7 lbs. 12 oz. 13.99

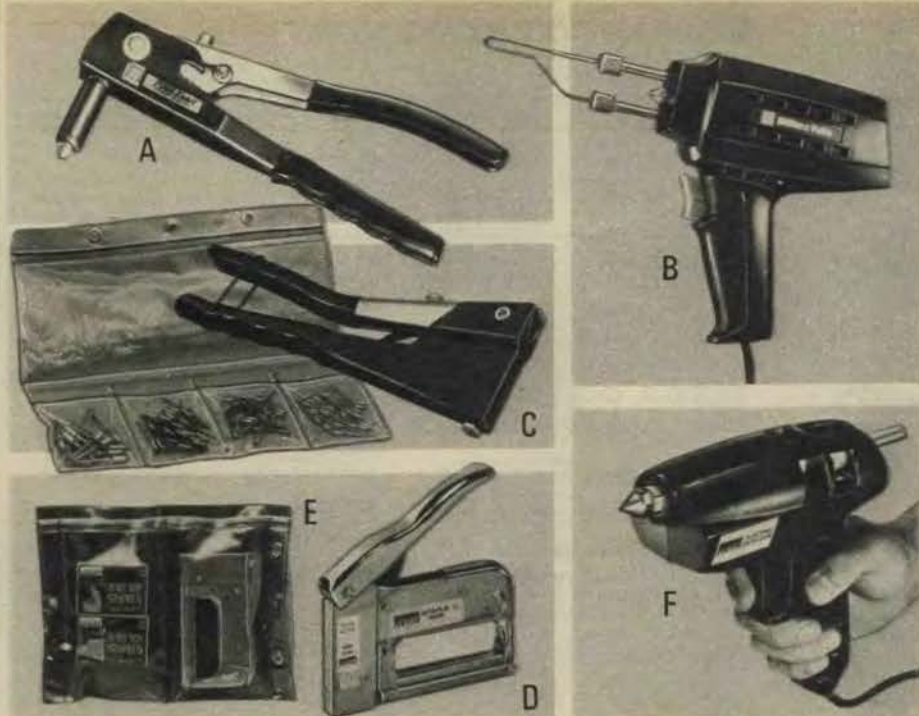
55 DRAWER CABINET (drawers all same size). Cabinet same as (E) but measures 12x5¼x20¼-in. high. Drawer construction same as (E).

84 A 4355 M—Wt. 8 lbs. 12 oz. 17.99

25 DRAWER CABINET (drawers in 3 sizes). Cabinet same as (E) but measures 12x5¼x13-in. high. Drawer construction same as (E).

84 A 4330 M—Wt. 6 lbs. 4 oz. 11.49

Why drive? Phone Wards—see pages 600, 601.



Assortment of fastening tools and kits

A Heavy-duty rivet gun.
FEATURES: Handles most materials from leather to sheet metal.
CAPACITY: Shoots rivets up to $\frac{3}{16}$ -in. diameter. See table below to order rivets.
84 A 549—Ship. wt. 1 lb. 8 oz. 16.99

B Soldering gun kit.
GUN: 175-250 watt. On/off trigger switch.
KIT: Includes smoothing and cutting soldering tips, roll of rosin core solder, plastic storage case. UL listed. 120V AC. Gun has spotlight.
84 A 6160—Ship. wt. 4 lbs. kit 22.99
REPLACEMENT SOLDERING TIPS.
84 A 6163—Ship. wt. 1 oz. each 95¢

C Rivet gun kit.
INCLUDES: Rivet gun, 85 rivets in assorted lengths and diameters, and sturdy plastic storage pouch. To order see table below.
84 A 522—Wt. 1 lb. 8 oz. kit 13.99

ALUMINUM RIVETS						
Size	Diam. in.	Pkg. of	Catalog number	Ship. wt.	Pkg.	2 or more
Short	$\frac{1}{16}$	100	84 C 528	1 lb.	2.79	2.59 ea.
Med.	$\frac{1}{8}$	100	84 C 531	2 lbs.	3.29	3.09 ea.
Long	$\frac{1}{4}$	100	84 C 518	2 lbs.	4.49	4.19 ea.
ALUMINUM RIVETS						
Short	$\frac{1}{16}$	50	84 C 534	2 lbs.	3.29	3.09 ea.
Med.	$\frac{1}{8}$	50	84 C 538	2 lbs.	3.49	3.29 ea.
Long	$\frac{1}{4}$	50	84 C 538	3 lbs.	4.09	3.89 ea.

STEEL RIVETS						
Size	Diam. in.	Pkg. of	Catalog number	Ship. wt.	Each pkg.	2 or more
Short	$\frac{1}{16}$	100	84 C 526	3 lbs.	2.89	2.49 ea.
Med.	$\frac{1}{8}$	100	84 C 529	4 lbs.	3.29	3.09 ea.
Long	$\frac{1}{4}$	100	84 C 532	5 lbs.	4.49	4.19 ea.

Tub of 120 assorted $\frac{1}{16}$ -in. aluminum and steel rivets. Includes short, medium, long. Ship. wt. tub, 5 lbs.
84 C 542 tub 5.49; 2 or more, ea. 5.19

Simple to operate; single valve control.

USES: Home repairs—auto, cycle, snowmobile, and jewelry, metal sculpturing.

FEATURES: Torch develops oxygen from pellets, combines with propane to braze, cut and silver-solder with a 5000° flame.

INCLUDES: Welding torch, 14-oz. propane cylinder, can of pellets, two welding tips (sizes .060 and .080), rods, goggles, spark lighter, extra filter, tip cleaner and instruction manual. Lightweight, portable take along for quick easy repairs. Wt. 10 lbs.
84 A 5868 RY. 27.95

84 A 5837—4 oz. re-sealable can of oxygen propane flux. Wt. 5 oz. 99¢

84 A 5834—Mini-tip for jewelry, sculpture. Ship. wt. 2 oz. 1.19

OXYGEN PELLETS FOR WELDER ABOVE	Package burn time	Catalog number	Ship. wt. lbs. oz.	Pkg.	Any 2 or more
General purpose for large tip	65 min.	84A5827Y	2 11	3.89	3.29 ea.
Oxygen-rich for large tip cutting, welding	70 min.	84A5829Y	2 11	3.89	3.29 ea.
Light-duty for small tip, give fine flame	90 min.	84A5828Y	2 11	3.89	3.29 ea.
Assortment of 3 types above	100 min.	84A5826Y	2 11	3.89	3.29 ea.
Longer-burning (each burns about 12 min.)	75 min.	84A5836Y	3	3.89	3.29 ea.
Pellets for use with mini-tip 5834 above	.....	84A5833Y	2 8	3.89	3.29 ea.

WELDING RODS FOR WELDER ABOVE	Size in.	Pkg. of	Catalog number	Wt. oz.	Pkg.	Any 2 or more
Ass't'd. (bronze, nickel-silver, aluminum, steel)	Ass't'd.	5	84A5830	4	1.39	1.19 ea.
Flux-coated nickel-silver brazing rods	$\frac{1}{16}$	3	84A5838	4	1.39	1.19 ea.
Premium flux-coated bronze brazing rods	$\frac{1}{16}$	5	84A5839	4	1.39	1.19 ea.
Bare aluminum brazing rods; for small tip	$\frac{1}{16}$	5	84A5842	4	1.39	1.19 ea.
Premium bare bronze brazing rods; use flux	$\frac{1}{16}$	5	84A5843	4	1.39	1.19 ea.
Copper-coated steel welding rods; flux unrec.	$\frac{1}{16}$	10	84A5844	4	1.39	1.19 ea.

See electric and gas welders, pages 954-957



Electric staple gun

G Electric staple gun.
DRIVES: $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{8}$ -in. (ceiling tile) staples.
Order staples below.

FEATURES: Light, compact. Faster, requires less effort than manual guns. For 115-v., AC. UL listed. Write for Mfr.'s Warranty, see pg. 605.
84 A 579—Wt. 3 lbs. 4 oz. 24.99

H Electric staple gun kit.
INCLUDES: Staple gun (G), 1000 each $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$ -in. staples, staple remover, case.
84 A 570—Wt. 4 lbs. 3 oz. kit 36.99

Box of 1000 staples for guns 570 and 579.				
Size	Cat. no.	Wt.	Box	2 boxes
$\frac{1}{4}$ -in.	84 A 573	5 oz.	1.09	1.99
$\frac{3}{16}$ -in.	84 A 578	6 oz.	1.29	2.29
$\frac{1}{2}$ -in.	84 A 577	7 oz.	1.39	2.49
$\frac{5}{8}$ -in.	84 A 578	8 oz.	1.49	2.69



Electric bradnail gun

USES: Ideal for installing paneling and molding.
CAPACITY: Drives 1 and $1\frac{1}{2}$ -in. brad nails (below).

CONSTRUCTION: V-base design allows nailing in corners. Touch-actuated safety lock prevents accidental discharge.

ELECTRICAL INFORMATION: For 110-120V, AC. UL listed. Includes 15-ft. cord. Write for free copy of Manufacturer's Warranty, see page 605.
84 A 555—Ship. wt. 4 lbs. 1 oz. 68.99

BRAD NAILS FOR NAILER. In packages of 500.

		Nail length		Wt. (Oz.)		Pkg.		3 or more	
Color		1 in.	1 1/2 in.						
Off-white	84A556	84A560	5	1.29	1.19 ea.				
Lt. wood	84A557	84A561	5	1.29	1.19 ea.				
Med. wood	84A558	84A562	5	1.29	1.19 ea.				
Dk. wood	84A559	84A568	5	1.29	1.19 ea.				

Solid oxygen welder for home repairs



ALL WARDS 945

Heavy-duty, swivel utility vise

Extra-large anvil and horn work surface

Permanently dry-lubed screw, enclosed by rugged box frame slide

A

Vises for home and work*

A Heavy-duty utility vise.

FEATURES: Massive construction, serrated steel rep. jaws, built-in pipe jaws, swivel base.

CONSTRUCTION: High-tensile gray iron castings. $\frac{3}{8}$ -in. steel slide.

Jaw width	Jaws open	Pipe cap.	Catalog number	Lbs.	Each
3½ in.	4 in.	1½ to 2 in.	84 A 5430	19	29.99
4 in.	4½ in.	2 to 2½ in.	84 A 5444 M	21	43.99
5 in.	5 in.	2½ to 3 in.	84 A 5445 M	38	64.99

B Machinists' vise with swivel base.

FEATURES: Swivels 360°. Precision adjusting screw and sliding bar. Locks in any position. Replaceable steel face jaw inserts. Meets Federal Spec.

CONSTRUCTION: Extra-heavy cast body. From Japan.

Jaw width	Jaws open	Catalog no.	Lbs.	Each
4 in.	6 in.	84 A 5431 M	45	139.99
5 in.	7 in.	84 A 5433 M	70	149.99

C Home workshop vise.

FEATURES: 220° swivel base. Positive lock. Built-in serrated steel jaws, built-in pipe jaws with $\frac{1}{4}$ -in. capacity. Solid anvil. Made in Taiwan.

CONSTRUCTION: Heavy cast iron, brilliant finish.

Jaw width	Jaws open	Catalog no.	Lbs.	Each
3½ in.	3 in.	84 A 5447 M	10	11.49
4 in.	3½ in.	84 A 5448 M	13	20.49

D Heavy-duty woodworkers' vise.

FEATURES: Precision screw with guide rods. Shifts from screw to slide action. 4x10-in. jaws open 12 inches. Meets government specifications.

84 A 3154 M—Ship. wt. 33 lbs. . . . 69.99

WOODWORKERS' VISE. Continuous screw. 3x6½-in. jaws open 7 in.

84 A 3184—Ship. wt. 10 lbs. . . . 29.99

E Utility clamp-on vise.

FEATURES: Fits benches up to 2 in. thick. 3-in. jaws open 2½ in. wide.

CONSTRUCTION: Strong double slide bars. Gray iron. Taiwan.

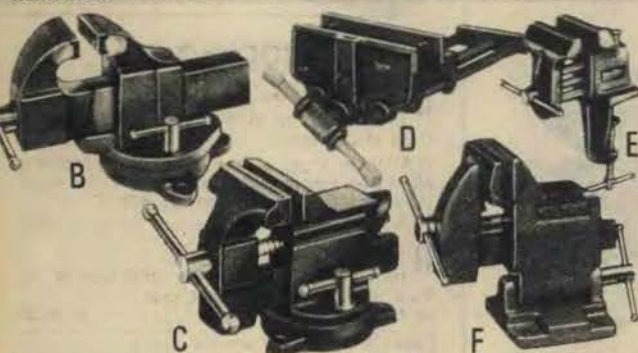
84 A 5442—Ship. wt. 4 lbs. . . . 7.89

F Flip-grip II.

FEATURES: Has 4-in. jaw width. Puts a grip on wood, metal, pipe—horizontally and vertically. Flips to any position or out of the way, with unique flip and lock design. Has removable serrated jaw inserts. Rugged construction.

84 A 5478 M—Wt. 16 lbs. . . . 27.99

*Weights shown are approximate.



4-in. depth capacity allows larger boards to be cut

Versatile Stanley miter box with saw

Full cutting range includes settings for 4, 5, 6, and 8 sided figures

Miter boxes for complete workshop

G Stanley Workmaster miter box. Designed for maximum accuracy.

CONSTRUCTION: Durable cast aluminum, offset legs with 4-in. x 18-in. 13-point backsaw. Unique free floating saw guide. Saw is guided all the way through the work, because of low frictional surface.

ADJUSTABLE INDEX PLATE: Adjusts for angular accuracy.

FEATURES: Get fast, easy angle settings with spring loaded wedge. With board clamp (behind saw) you secure workpiece against the back-plate, and board stop facilitates multiple cuts of the same length. Larger boards can be cut with 4-in. depth capacity.

84 A 16206 M—Wt. 11 lbs. . . . 53.99

H Our best miter box with back saw.

SAWING CAPACITY: Max. depth 5-in. Work support bar pivots with angle selector which keeps work level, insures clean, sharp, matching cuts.

SAW GUIDE: 11½-in. apart, pivot and locks at all angles, adjusts to any blade thickness. Saw rides on self lubricating sintered bronze bearings.

INDEX PLATE: Spring-loaded pointer stops guides at 7 commonly used angles.

CONSTRUCTION: Heavy-duty. One piece base and back is a casting for strength and durability.

84 A 16200 M—Wt. 31 lbs. . . . 119.99

I CUT \$9. Our most popular miter box.

SAWING CAPACITY: Max. depth 4-in. The angle between back and saw can be reset to 90° for permanent accuracy.

SAW GUIDE: Located 11½-in. apart with 8 steel rollers. Adj. to any saw thickness, pivot and lock at all angles.

INDEX PLATE: Spring-loaded pointer stops guides at 7 commonly used angles.

CONSTRUCTION: Sturdy steel legs place cutting bed 4 in. above work bench. Was 86.99, '80 Spr. Bk., pg. 823.

84 A 3986 M—Ship. wt. 22 lbs. . . . 77.99

J Miter box with hardwood base.

SAW GUIDE: Thumb screw allows adjustment to various saw thicknesses.

INDEX PLATE: Has "V" notches to indicate most commonly-used angles between 45° left or right.

CONSTRUCTION: Aluminum-alloy frame, kiln-dried hardwood base, rubber feet. Includes 3¼x16-in. 11-point back saw and accepts hand, hobby, or miter saws.

84 A 16202—Wt. 7 lbs. 10 oz. . . . 24.99

MITER BOX like (J) without back saw.

84 A 16201—Wt. 5 lbs. 14 oz. . . . 17.99

Size	Catalog no.	Ship. wt.	Each
16x3 in.	84 A 3995	1 lb. 12 oz.	9.99
24x4 in.	84 A 3996 M	2 lbs. 10 oz.	17.49
28x5 in.	84 A 3997 M	4 lbs. 3 oz.	21.99

Shop vac accessories

L 2½-in. accessory kit for Wards vacs. Includes 6 ft. x 2½-in. hose, two 20-in. extension wands, crevice tool, and 6-in. utility nozzle. Ideal for bulky dry pick-up.

84 A 5314—Wt. 3 lbs. . . . 16.49

1¼-IN. ACCESSORY KIT Includes round brush, crevice tool, upholstery nozzle, triangular nozzle, and two universal adaptors.

84 A 5313—Wt. 14 oz. . . . 9.79

M Flexible hose, 6-ft. x 2½-in. diam.

84 A 5334—Wt. 2 lbs. . . . 8.49

FLEXIBLE HOSE. 6-ft. x 1½-in. diam. like M, but has positive lock and variable air flow control.

84 A 5311—Wt. 1 lb. . . . 6.79

N 84 A 5386—1¼-in. crevice tool. Wt. 3 oz. . . . 1.99

84 A 5325—2½-in. crevice tool. Wt. 7 oz. . . . 3.89

O 84 A 5384—1¼-in. round brush. Wt. 4 oz. . . . 2.19

P 14x2½-in. floor nozzle and brush.

84 A 5339—Wt. 9 oz. . . . 6.29

Q 2-pc. 2½-in. diameter extension wand.

84 A 5336—Wt. 1 lb. 3 oz. . . . 5.89

2-PC. 1½-IN. EXTENSION WAND, like Q but positive lock.

84 A 5390—Wt. 12 oz. . . . 4.99

R 6-in. x 2½-in. Utility nozzle with brush.

84 A 5317—Wt. 5 oz. . . . 3.89

S 4-wheel dolly for 5 and 6-gal. vacs.

84 A 5328—Wt. 1 lb. 12 oz. . . . 6.99

Dolly for 10 and 12-gal. vacs.

84 A 5380—Wt. 2 lbs. 1 oz. . . . 8.79

T 10-in. x 1¼-in. comb. wet/dry nozzle, posi-lock.

84 A 5318—Wt. 7 oz. . . . 4.89

U Curved extension tube with posi-lock.

84 A 5319—Wt. 4 oz. . . . 2.89

V Pkg. 5 bags for dry pick-up.

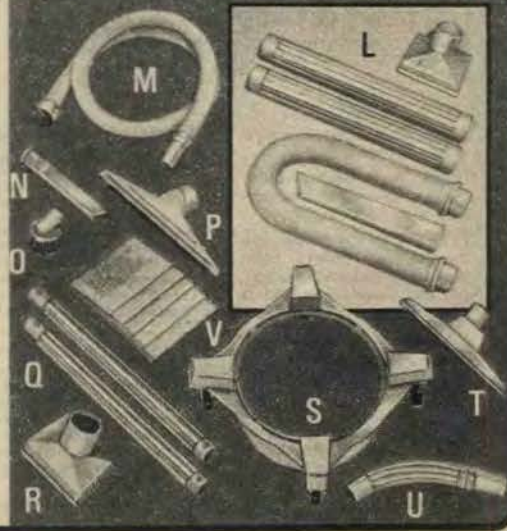
84 A 5337—Wt. 2 oz. . . . pkg. 1.99

CLOTH FILTER BAG for dry vacs only.

84 A 5338—Wt. 2 oz. . . . 1.99

FOAM FILTER for Wards wet and dry vacs.

84 A 5376—Wt. 1 oz. . . . each 2.19



16-gallon wet and dry vac, our largest capacity

It's powerful and is rugged for big jobs around the house and yard... variable air flow control on hose makes it ideal for delicate jobs too.



104⁹⁹

Powr-Kraft high-performance vacs can pick-up 1-gal. of water in less than a second, and ½ bushel of saw dust in approximately 7 seconds when used with 2½-in. accessories sold on opposite page.

16-gallon wet and dry vac outfit for big pick-up jobs.

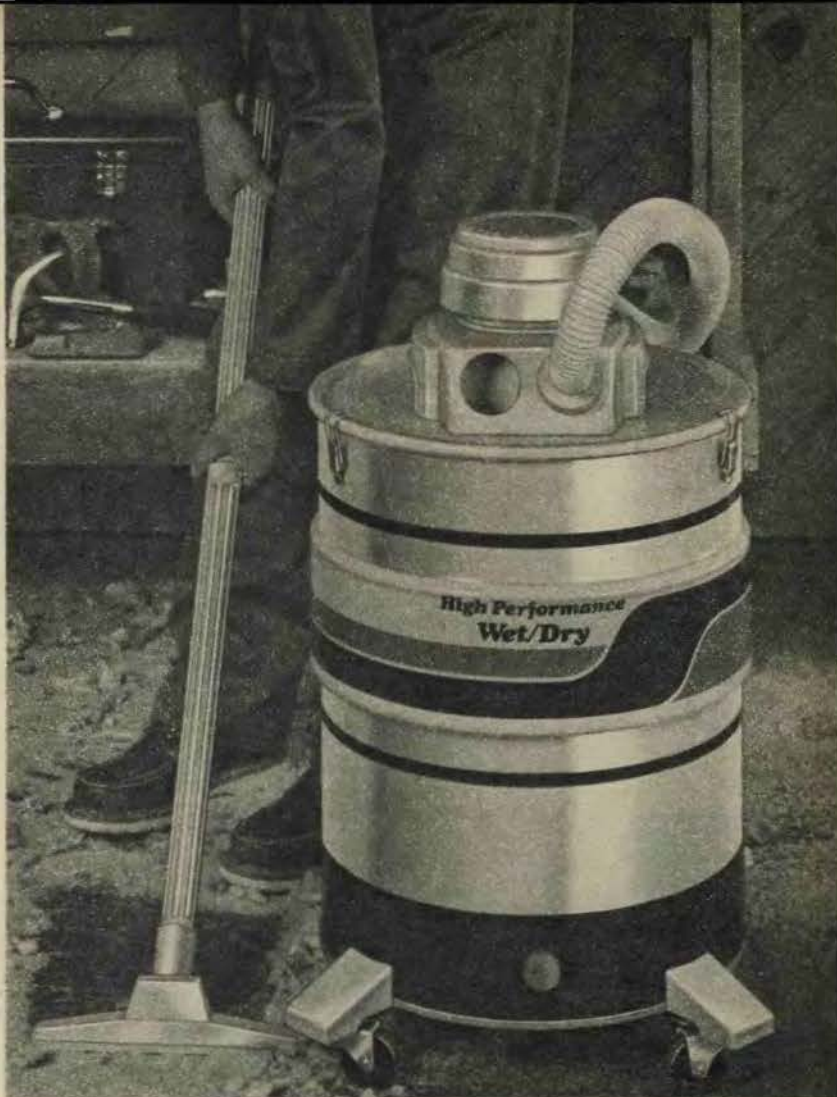
MOTOR: High performance. 1.25 HP (peak). Located above the cover for maximum safety, delivers up to 20% greater air power at nozzle than standard vac. 6-amp, 120 volt.

CONSTRUCTION: Rugged plastic motor housing. Tank has 14-gal. wet capacity and 14½-gal. dry. Steel drum and cover epoxy phenolic-coated to resist rust and corrosion.

FEATURES: Variable air flow control on hose for delicate jobs requiring less air power. Positive lock hose, wands and nozzle system eliminates slippage. Convenient drain plug for easy emptying. Positive lock and variable air flow control. Automatic float shut-off stops suction when liquid is reached.

ACCESSORIES: 6-ft.x1½-in. hose with curved wand end, two 1¼-in. positive lock extension wands, 10-in. combination positive lock wet/dry nozzle, metal cross brace dolly, with ball bearing casters, foam and paper filters—(1 ea.). See Warranty below.

84 A 5393 A—Wt. 31 lbs. UL listed. 104.99



Accessories interlock

hose has variable air flow

Industrial wet and dry vac 189⁹⁹

Outfit includes accessories

MOTOR: 1.7 HP (peak). Industrial two-stage bypass filtration system. Automatic suction shut-off is activated when liquid capacity is reached.

CONSTRUCTION: Side-mounted intake opening. Accepts 1¼ inch and 2½-inch accessories.

TANK: 8½-gal. dry capacity, 6½-gal. wet capacity. Steel drum has bright yellow safety color. Rust-resistant epoxy phenolic-coated interiors.

1½-IN. DIAMETER ACCESSORIES: Chrome plated except hose. 14-in. master nozzle, 14-in. squeegee shoe, 14-in. brush shoe, 14-in. rug shoe, 12-ft.x1½-in. crush-proof hose, interlocking chrome extension wands and heavy-duty vac cart with handle. Handle removes for easier storage and reverses for easy emptying. Pick-up non-combustible materials such as dirt, liquids, and mixtures. Write for free copy of Manufacturer's Warranty—see pg. 605.

84 A 5375 R—UL list. Wt. 53 lbs. 189.99



10-gallon wet/dry vac 72⁹⁹

6-gallon vac 62⁹⁹

MOTOR: High performance. 1.25 HP (peak). Located above cover for max. safety, up to 20% greater air power at nozzle than standard vac.

CONSTRUCTION: Plastic cover and motor housing with built-in handles for easy portability. Epoxy phenolic-lined drum resists rust, corrosion.

FEATURES: Positive lock hose, wands and nozzle system eliminates slippage. Variable air flow control on hose for delicate jobs requiring less air power. Auto. shut-off like 5393 above.

ACCESSORIES: Positive lock and variable airflow control, 6-ft.x1¼-in. hose with curved wand end, two 1¼-in. positive lock wands, 10-in. combination positive lock wet/dry nozzle, 4-wheel plastic dolly, foam and paper filters (1 ea.). 6-amp, 120 volt. UL listed. See Warranty below.

10-gal. size. 8-gal wet capacity, 8½-gal dry.

84 A 5392 A—Wt. 20 lbs. 72.99

6-GAL SIZE. 5-gal. wet capacity, 5.3-gal dry. Same as 5392, except hose has straight end.

84 A 5391 M—Wt. 16 lbs. 62.99

FULL ONE-YEAR WARRANTY

Montgomery Ward warrants this shop vac against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. For Warranty service return vac with required evidence of date of purchase to any Montgomery Ward branch. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



Wards lowest priced wet/dry vac

47⁸⁸

5-gal.

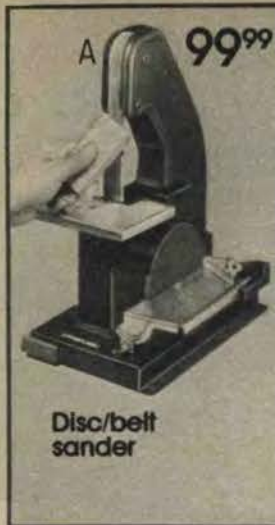
5-gal. wet/dry vac.

MOTOR: .93HP (peak). Auto shut-off like 5393, 5392.

FEATURES: Plastic cover and motor housing. 4-gal. wet capacity, 4.2-gal. dry. Dolly (not shown). See Warranty, left.

INCLUDES: 6-ft.x1¼-in. hose 2-1¼-in. extension wands, 10-in. combination wet/dry nozzle, foam and paper filters (1 ea.). 6-amp 120 volt. UL listed. Wt. 13 lbs. 2 oz.

84 A 5387 M 47.88

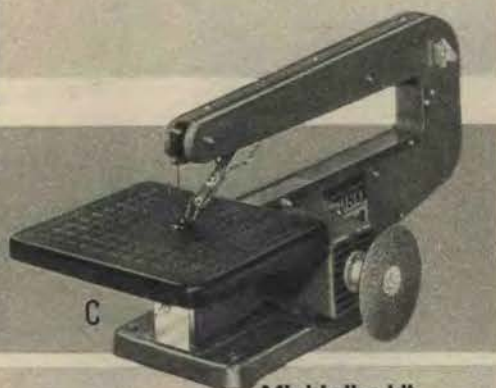


Disc/belt sander

Combination scroll saw/sander cuts wood, steel, other materials
84⁹⁹



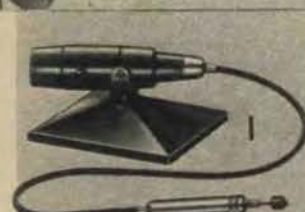
4-in. table saw precision cutting



Mini-lathe kit Do beautiful wood turnings
64⁹⁹



Dremel rotary tool kit



Rotary tool with flexible shaft.



Punch set

948 WARDS ALL



Identify your possessions

Creative craft tools by Dremel

A Disc/belt sander sands, shapes, polishes, cleans, sharpens.

FEATURES: Table remains fixed for belt sanding, tilts for disc sanding. Works on wood, metal, plastic, glass, and ceramics. 1-in. wide, 30-in. long belt. 3-in. throat for internal belt sanding. 5-in. diameter, adhesive back disc. Miter gauge for accuracy. 2.0 amp motor. Powers 2700 no-load SFM (belt), 4400 no-load RPM (disc). Universal, self-limiting brushes. Belt drive. Mfr.'s Warranty, see pg. 605.

84 A 97512—Wt. 15 lbs. Overall 15Hx10Wx11-in. 99.99

REPLACEMENT SANDING BELTS for (A). Package of 2 each. Wt. 3 oz.

84 A 98009—Fine pkg. 4.49; 84 A 98008—Med. pkg. 4.49

B 4-in. table saw cuts 1-in. at 90°, ¾-in. at 45°.

FEATURES: Miter gauge adjusts to 45°. Self-aligning rip fence. All controls up front for depth and angle settings. 9,800 no-load RPM. 2.2-amp motor. Table top 12x10-in. Incl. 30-tooth blade. See Wards Warranty, pg. 931.

84 A 97501—Ship. wt. 14 lbs. 99.99

REPLACEMENT BLADES for (B). Ship. wt. 3 oz. each.

84 A 98001—Fine (100 teeth) ea. 5.49; 84 A 98002—Coarse (teeth 30) ea. 5.49

C Combination scroll/saw sander cuts wood up to 2-in. light gauge steel, aluminum, plastic, foam, many other materials.

FEATURES: Table tilts 45° right or left. 15-in. throat. Incl. three 4-in. sanding discs, backing pad, adapter, 4 blades. 3450 no-load SPM. See Wards Warranty pg. 931. Order accessory kit (#2356) below.

84 A 2354 M—23Lx9¼x9½-in. H. Wt. 16 lbs. 84.99

BLADES for scroll/saw sander (C). 2 pkgs. of 5 each. Wt. ea. 1 oz.

84 A 9290—Fine pkg. 2.79; 84 A 9291—Coarse pkg. 2.79

SANDING DISCS for (C). 4-in. diam. Pkg. of 5 assort. grits.

84 A 8011—Wt. 1 oz. per pkg. 3 pkgs. 3.99; 10 pkgs. 11.99

30-PC. ACCESS. KIT for (C). Incl. flex. ext. shaft, wire wheel, drum sander, sanding discs-bands, grinding wheels, brushes, drill, steel cutter, collets, wrench, polishing compound, saw blades.

84 A 2356—Ship. wt. 2 lbs. 8 oz. kit 29.99

D Compact mini-lathe is a must for all model builders, miniaturists.

FEATURES: Turns wood up to 1½-in. diam., 6-in. long. 3450 no-load RPM. Built-in drive center shaft lock quick stock changes, instruction manual. Approx. 15¼x6¼x¼-in. high. Incl. 4-pc. chisel set, hardwood dowels, tail stock center, drive center, wrench. See Wards Warranty pg. 931.

84 A 89961—UL listed. Ship. wt. 8 lbs. 64.99

All tools above are 115V, 60 Hz. AC, UL listed, grounded plug.

Rotary tools are fun, challenging

E Dremel "381" professional vari-speed rotary tool kit.

SPECIFICATIONS: 100% ball-bearing, permanent magnet, 5000 to 25,000 no-load RPM, ¼-in. shank cap. 115V, 60 Hz. AC. UL listed.

INCLUDES: 34 accessories: high-speed steel cutter, ¼ and ⅜-in. collets, brushes, mandrels, sanding discs/bands, abrasive wheels/stone, case. Write for free copy of Manufacturer's Warranty, page 605.

84 A 92761—Wt. 3 lbs. kit 79.99

WARDS BEST KIT similar to (E), has oil-impregnated bronze-bearings and series-wound motor. See Wards Warranty page 931.

84 A 92982—Ship. wt. 3 lbs. kit 69.99

F 12-pc. H.S.S. cutter set. Shape/hollow wood, plastic, etc.

84 A 9294—Ship. wt. 8 oz. kit 32.99

G 12-pc. S.C. grinder set. Grind/mark hard steel, glass, etc.

84 A 98006—Ship. wt. 6 oz. kit 15.99

H 6-pc. H.S.S. router bit set. Rout/mortise wood, soft materials.

84 A 98007—Ship. wt. 5 oz. kit 24.99

I Rotary tool with 34-in. flex. shaft for carving, crafts, etc.

FEATURES: Slim grip ball bearing hand piece. ¼-in. collet. Swivels 360°. Use as table mount or hang on wall with wall hanger (included) 28,000 RPM, 115V, 60 Hz. AC. UL listed. See Wards Warranty page 931.

84 A 8992—Ship. wt. 4 lbs. 79.99

J Router attachment for routing, edging, lettering.

84 A 9293—Ship. wt. 1 lb. 12.49

34-PC. ACCESSORY KIT for rotary tools. ¼-in. shank. Comes with cutter, brushes, sanding discs, etc.

84 A 9275—Ship. wt. 5 oz. kit 24.99

K Drill Press attachment. Converts rotary tools to drill presses.

84 A 9289—12-in. high. Wt. 3 lbs. 8 oz. stand 27.99

L Hobby vise with rotary tool holder. Holds work piece in any position over a 180° range and 360° axis.

FEATURES: Vise and rotary tool holder are interchangeable in ball-swivel joint vise. Vise has 2½-in. jaw span.

84 A 92976—Ship. wt. 5 lbs. 3 oz. 27.99

Electric engraving tools

M Deluxe engraver with replaceable tips. Write your name on commonly

stolen articles such as tools, radios, bicycles. 7200 SPM. Adjusts for fine or deep lines. High-impact housing.

84 A 97517—Wt. 15 oz. UL listed 16.99

REPLACEMENT TIPS for 97517.

84 A 97518—Carbide. Wt. 1 oz. ea. 3.49

84 A 97519—Diamond. Wt. 1 oz. ea. 11.99

N Electric engraving tool, similar to (M) except has tungsten carbide tip.

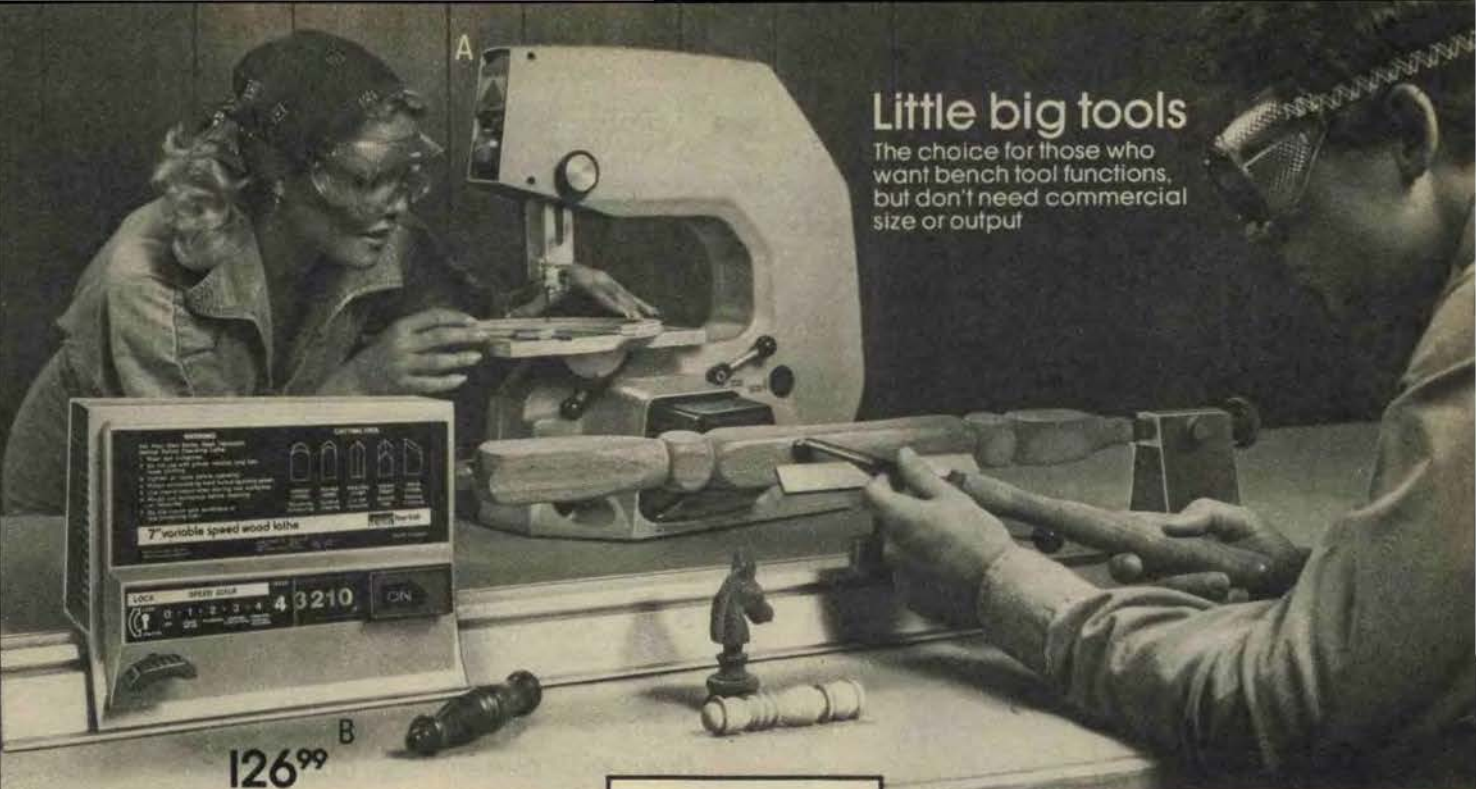
84 A 8999—Wt. 11 oz. 7.99

O Punch sets mark leather, wood and metal. Letter set Z 84 A 4144 includes A to Z and a period. Number set Z 84 A 4143 includes 0 to 8 (use punch "6" for "9").

Size	No.	Catalog no.	Ship. wt.	Set
1/8 in.	01	State size no. Z 84 A 4144	1 lb. 8 oz.	15.79
3/16 in.	03		3 lbs.	19.69
1/4 in.	02		4 lbs.	22.99
Number set: 0 to 8				
Size	No.	Catalog no.	Ship. wt.	Set
1/8 in.	01	State size no. Z 84 A 4143	1 lb.	6.99
3/16 in.	03		1 lb. 8 oz.	6.99
1/4 in.	02		2 lbs.	8.99

Little big tools

The choice for those who want bench tool functions, but don't need commercial size or output



126⁹⁹

A Precision band saw cuts intricate patterns in wood, plastics, and non-ferrous metals. Has many "big" band saw features.

FEATURES: Integral motor eliminates belts and pulleys. Adjust blade tension and tracking with one hand. 45° tilt table is simple to adjust and has miter gauge for accurate mitering and ripping. Easy-to-adjust upper and lower blade guides. Permanently-sealed ball-bearing drive wheel. **MOTOR:** 3.0 amps, 1/2 HP max. output. 120V, AC. Double insulated. **BLADE SPEED:** 480 to 1200 variable-speed SFM for smooth cutting. **CAPACITY:** Cuts 4 in. deep. 10-in. throat.

DIMENSIONS: Overall 21 in. high x 12 1/2 in. wide x 22 1/4 in. deep. High impact housing. Table measures 10x10 in. 57-in. blade (extras below).
84 A 2393 R—See Warranty, pg. 931. Ship. wt. 29 lbs. 156.99
84 A 2419—1/4-IN. BLADE for (A). Ship. wt. 4 oz. 5.49
84 A 2420—3/8-IN. BLADE for (A). Ship. wt. 4 oz. 5.49
84 A 2421—1/2-IN. NON-FERROUS BLADE for (A). Wt. 4 oz. 5.49

B 7-in. wood lathe can be mounted to your workbench.

FEATURES: Turns and shapes wood or plastics with precision. Has large calibrated speed control switch. Reinforced aluminum bed is durable and remains rigid. Totally-enclosed motor. Easy-to-adjust tool rest. Permanently-lubricated bearings. Double-insulated. **MOTOR:** Universal 3.0 amp, 1/2 HP max. output. 120V AC. **DRIVE CENTER SPEED:** Variable from 700 to 1800 no-load RPM. **CAPACITY:** Accepts work up to 7 in. in diameter, 27 in. long. **DIMENSIONS:** 8 in. x 5 1/4 in. x 42 in. long.

84 A 2003 M—See Warranty, pg. 931. Wt. 23 lbs. 126.99

C Rockwell sander/grinder sharpens, sands, grinds, shapes.

MOTOR: 120 volts, 9 amp. Does 5000 no-load sanding feet per minute with belt provided. UL listed. **BELT:** Aluminum oxide, medium grit. 1x42 in. long. For use on metals, woods, and plastics. **TABLE:** Steel. 7x8 in. wide. Tilts 10° in, 90° out. Locks in place for stability.

CONSTRUCTION: Locking on/off switch. 3-prong plug. Overall 13 1/2 x 12 x 20 in. high. Write for free copy of Mfr.'s Warranty, see page 605.

84 A 2702 M—Ship. wt. 16 lbs. 87.99

D 1/2-in. drill press has 1-in. wood, 1/2-in. steel capacity.

FEATURES: High-impact housing is double insulated. Compact and lightweight. Can be mounted to work bench. Safety on/off switch. Has drilling guide and drill bit index. Protected work light. 21-in. high column. Permanently-lubricated bearings. Double reduction gears.

MOTOR: 3.2 amp, develops 1/2 HP maximum output. 120V AC, UL listed. **SPINDLE SPEED:** Variable from 300 to 800 RPM. Travels 2 1/2 in.

DIMENSIONS: Work surface is 6 1/2 x 6 x 1 in., base is 10 1/2 by 7 1/2 in. Throat is 4 1/2 in. Overall: 21 in. high x 7 1/2 in. wide x 10 1/2 in. deep. See Warranty, page 931.

84 A 2435—Ship. wt. 17 lbs. 88.99

E 3/8-in. drill press.

FEATURES: High impact housing. Safety chuck key lock.

MOTOR: 3 amp. 120V, AC. UL listed.

SPINDLE SPEED: Variable from 700 to 1800 no-load RPM. Travels 2 1/2 in.

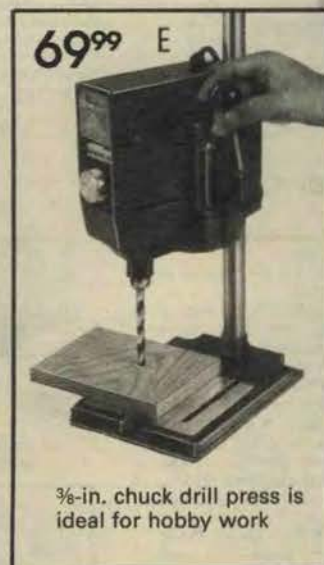
DIMENSIONS: Throat is 4 1/2 in. Measures 19 in. high.

84 A 2434—See Warranty, pg. 931. Wt. 13 lbs. 69.99

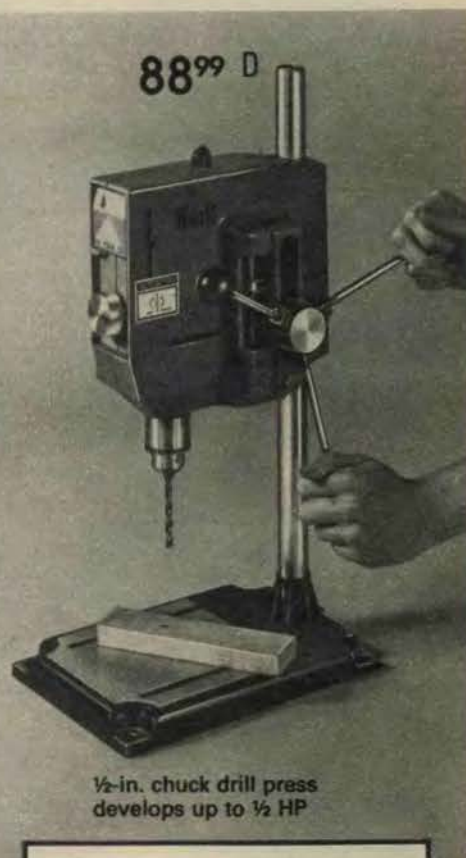
(F) 84 A 2432—Tilt table for (E). Wt. 1 lb. 7.39



Rockwell sander/grinder does 5000 no-load sanding feet per minute



1/2-in. chuck drill press develops up to 1/2 HP



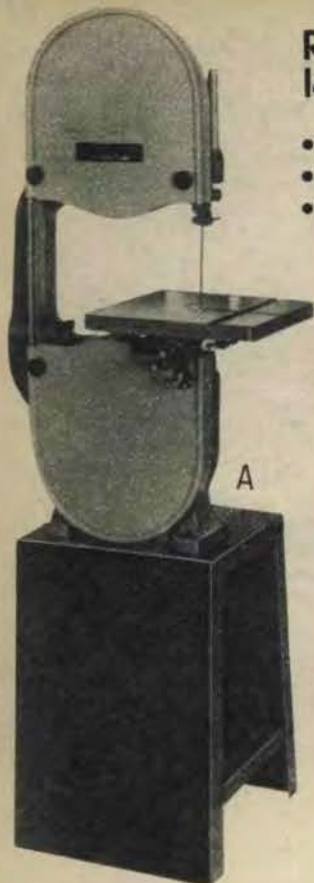
3/8-in. chuck drill press is ideal for hobby work



Cast tilt table for (E) 7.39

Rockwell 14-in. band saw

- Table tilts 45° for bevel cuts
- Includes motor and stand
- For home, school, shop



Powr-Kraft 10-in.

Multi-use, rugged 10- and 14-in. bandsaws

A Rockwell 14-in. band saw. CUTTING CAPACITY: Cuts 6½-in. deep, 13½ in. wide, 14x14-in. cast-iron table tilts 45° for bevel cuts. Table grooved for miter gauge and machined for rip fence, both sold separately below.

CONSTRUCTION: Ball-bearing supported upper and lower guides. Direct-reading blade tension scale. Aluminum wheels. Does 3,000 no-load surface feet per minute with standard pulleys. Measures 25x17½x65½-in. high. BALL BEARING CAPACITOR-START MOTOR: ½ HP, 1,725 no-load RPM. Manual reset overload protector 115V. Includes motor and machine pulleys, blade, V-belt, and stand. Uses 93½-in. long blades (sold below). Write for free copy of Mfr.'s Warranty, pg. 605.

84 A 2361 R—Wt. 224 lbs. 699.00

MITER GAUGE for (A).

84 A 2380—Wt. 3 lbs. 17.99

RIP FENCE for (A).

84 A 2381—Wt. 10 lbs. 38.99

B Powr-Kraft. 10-in. band saw.

CUTTING CAPACITY: Cuts to 6½ in. deep, 9½ wide, 10x11 cast-iron table tilts 45° for bevel cutting.

CONSTRUCTION: Ball-bearing supported upper and lower guides. Blade ten-

sioning and tracking controls. Adjustable blade guard. Does 2,400 surface feet per minute with standard pulleys. Measures 18½x10½x33-in. high. Includes motor pulley and arbor pulley, blade, and V-belt. Order motor (#34660) and stand (#2931) below. Uses 71½-in. long blades.

84 A 2359 R—Wt. 58 lbs. 269.00

BALL-BEARING CAPACITOR-START MOTOR recommended for (B). ½ HP, 1,725 no-load RPM, 115/230 V.

84 A 34660 MX—Wt. 19 lbs. 64.95

STURDY STEEL STAND recommended for saw (B), sanders 2705 and 2708 below. Height adjusts 25- to 31½-in.

84 A 2931 MX—Wt. 24 lbs. 37.99

WOOD CUTTING BAND SAW BLADES. Alloy steel. Heat treated, hardened for long wear and sharpness. Precision ground for cutting accuracy.

¼-in. wide x 71½-in. long blade.

84 A 2377—Teeth/in.: 6. Wt. 6 oz. 4.59

¼-in. wide x 93½-in. long blade.

84 A 2383—Teeth/in.: 6. Wt. 8 oz. 5.39

See 1980 Suburban Farm and Garden Book for other blades for these and other bandsaws.

Powr-Kraft belt sanders and grinders

C Belt/disc sander.

BELT, DISC: 6x48-in. belt, 9-in. disc. 3-in. diameter belt drums.

TABLE: 6½x12-in. Tilts 45° with disc or belt for bevel sanding. Graduated miter gauge.

CONSTRUCTION: Cast iron. Ideal for shop use. Handles curves, angles, edges, flat surfaces of wood, plastic, and metal. 10½x19½x27-in. long. Write for Mfr.'s Warranty, pg. 605.

84 A 2708 A—Wt. 51 lbs. 199.00

EXTRA 9-IN. DISCS. Asst. of 5.

84 A 8016—Wt. 8 oz. per pkg. 2.49

3 pkg. 6.48; 10 pkgs. 19.88

½-HP, 1,725 NO-LOAD RPM SPLIT-PHASE MOTOR. Double shaft (½, ¾-in.).

84 A 34519 MX—Wt. 18 lbs. 52.95

D Powr-Kraft sander/grinder.

MOTOR: 115V, ½-HP. Does 3,000 sanding feet per min. with belt provided. BELT: Aluminum oxide, medium grit. 1x42-in. long. Lubricated ball bearings on upper and lower wheels. Can be re-threaded to sand inside closed circles.

TABLE: 7x8-in. wide. Steel. Tilts 10° in, 90° out. Locks in place.

CONSTRUCTION: Rubber mounts reduce vibration. Lockable switch. Includes pulleys, V-belt, 8 ft., 3-wire cord. UL listed. Measures 22x10½x21½-in. high. Semi-assembled.

84 A 2761—Wt. 48 lbs. 159.00

E Sanding kit. Includes 9-in. sanding disc, 6½x12-in. deep table, and miter gauge.

84 A 2762—Wt. 9 lbs. 37.99

F 4-in. belt sander. BELT: 4x36-in. long. Adjustable tracking and belt tension. Easy belt changes. 2¼-in. diameter belt drums. PLATEN: 4½x12-in. long. Has removable 2¼x6-in. wide fence which tilts 45°. CONSTRUCTION: Cast-iron base and frame. Measures 5x7½x17-in. long. Order motor below.

84 A 2705 M—Wt. 19 lbs. 67.99

½-HP, 1,725 NO-LOAD RPM SPLIT-PHASE MOTOR. ½-in. shaft width ¼-in. adapter.

84 A 34521 MX—Wt. 15 lbs. 46.95

G 1-in. belt sander/grinder. BELT: Abrasive. 1x42 in. long. Lubricated ball-bearing upper belt wheel. TABLE: 3½x6-in. wide. Steel. Made of fabricated steel. Handle. Rubber feet. Order motor below.

84 A 3322—Wt. 13 lbs. 53.95

Abrasive belts. 1x42-in. long. Pkg. of 5.

Z 84 A 8000—Wt. 10 oz./pkg. State grit no.:

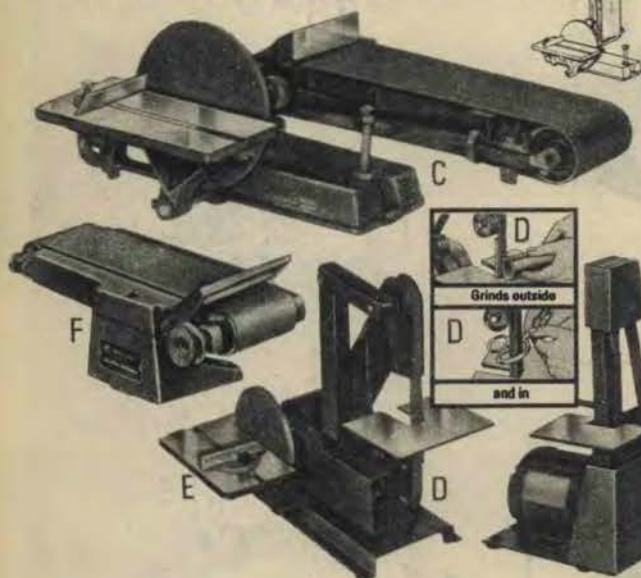
	pkg.	3 pkgs.	10 pkgs.
01 Fine	4.49	11.88	35.88
02 Med.	4.79	12.88	37.88
03 Coarse	4.99	13.44	39.88

½-HP, 1,725 NO-LOAD RPM SPLIT-PHASE MOTOR. ½-in. shaft with ¼-in. adapter.

84 A 34520 MX—Wt. 13 lbs. 41.95

Why drive? Shop by phone . . . see pages 600, 601

Finish wood, metal, plastics



Save time with 10-in. power miter box



USES: Cuts wood, plastics, compositions and light aluminum. MOTOR: 10.5-amp, 1.5-HP gear-drive motor turns 5500 RPM.

FEATURES: One-handed trigger release miter pivot handle and lock mean smooth, accurate, positive miter angle selections. Positive stops at 0°, 22½° and 45° right and left. Miterers up to 47°, makes out-of-square corners a snap. Convenient open handle is easy to grip with either hand. Automatic electric brake stops blade in seconds. Large, stable 4x21¼-in. work surface with 4-in. rear fence. Cross cuts 3½x4, miters 3½x2½ at 45°.

INCLUDES: Combination blade, lower blade guard, sawdust elbow, 8-ft. cord with 3-prong "grounding" plug, arbor wrenches and instruction manual. For 120V, AC. UL listed.

84 A 2670 A—Wt. 43 lbs. 239.00



Cutters and dados

H Cutter head knife sets that include: blank square knives, ¼, ½ quarter round, cabinet door lip, ¾ in., groove, and tongue, plus cutter head above. For ¾-in. arbor. 16 pieces.

84 A 2266—Wt. 1 lb. 15 oz. 31.79

I 8-in. taper-ground dado set. 2 outside blades ¼ in. thick; 5 chippers (Four ¼, one ½ in. thick). Cuts to ¼ in. wide. Outside blades chrome-plated alloy. State size no. 80.

Z 84 A 8371—Wt. 5 lbs. 2 oz. 44.99

6 AND 8-IN. DADO SETS like 84 A 8371 above but with flat-ground blades, not hollow ground. State size no.

Size no. 60 has 6 in. diameter.

Z 84 A 8370—Wt. 2 lbs. 14 oz. ea. 27.99

Size no. 80 has 8-in. diameter.

Z 84 A 8370—Wt. 4 lbs. 10 oz. ea. 34.99

16 and 17-in. drill presses and accessories

A 17-in. drill press.

SPEEDS: Solid-state, variably controlled. Select 750-2500 no-load RPM at chuck, 5000-18,000 no-load RPM on accessory spindle.

MOTOR: 3/4 HP, develops up to 1 HP max. Sealed ball bearings. Gear drive eliminates pulleys and belts 0-1/2-in. chuck capacity.

FEATURES: 6-in. depth travel for large work pieces. Protruding stop button for quick stops, shrouded start button for careful starts. Rotating head for angle drilling.

84 A 2437 R—Wt. 137 lbs. 469.00

SHAPER ADAPTER for drill press (A).

84 A 2612 X—Wt. 5 oz. 5.79

ROUTER ADAPTER for drill press (A).

84 A 2613 X—Wt. 5 oz. 6.59

B 16-in. drill press.

SPEEDS: 8 on spindle ranging from 380-8550 no-load RPM, sealed ball bearings.

FEATURES: Chuck capacity 0 to 1/2-in. Head tilts for angle drilling. 4 1/2-in. depth capacity. Table measures 10 1/2 x 14-in. Order motor no. 84 A 34654, pg. 958.

84 A 2526 R—Wt. 131 lbs. 339.00

C Rotary cross-slide milling table.

HOW IT WORKS: Turn hand wheels to rotate

or move workpiece side to side, front to back. For use with drill presses sold here and milling machines, metal shapers.

TABLE: 8-in. Has 1 1/2-in. counterbore, 5/8 x 1-in. T-slots. Rotary 40:1 worm-gear drive, 360° graduation. Calibrated to 1/20th degree. Lateral and transverse feeds graduated .001-in., travels 4 1/4-in. Slideways and gears adjustable for long wear. 5 1/4-in. high. Base 6 1/2 x 7 1/2-in.

84 A 2540—Wt. 35 lbs. 279.00

VICES (D), (F), (G) for use with drill presses sold here. They clamp workpiece in place to prevent spin if press drills all the way through.

D Angle vise tilts to 90°, 2 1/2-in. steel-faced jaws open 2 1/2-in. Overall 9-in.

84 A 2571—Wt. 9 lbs. 8 oz. 29.99

E Table with adjustable fence. For use with (A) to help guide work past shaper cutter or router bit.

84 A 2438 X—Wt. 14 lbs. 35.99

F Drill press vise. 2 1/2-in. steel-faced jaws open 2 1/2-in.

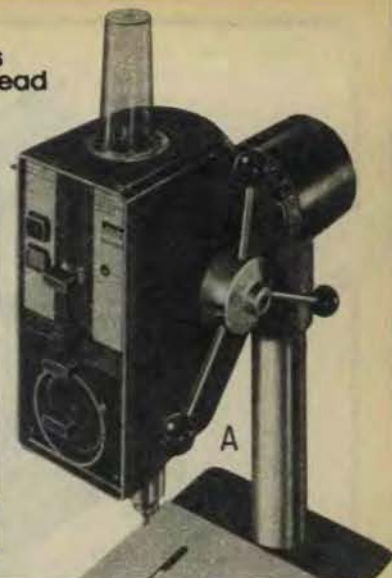
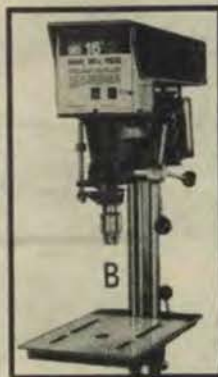
84 A 2570—Wt. 5 lbs. 12 oz. 25.99

G Drill press vise. 2 1/2-in. jaws open 3-in.

84 A 2563—Wt. 3 lbs. 6 oz. 10.99

See '90 Farm and Garden Book for mortising equipment for drill presses (A) and (B)

17-in. drill press
with rotating head
\$469



Drill press accessories



Adjustable hacksaw for 45° right or left angle cuts

H USES: Cuts through 3 1/2-in. steel shafts or 3-in. pipe (3 1/2-in. outside diam.), angle iron or bar stock effortlessly. Does 120 strokes per minute. Incorporates belt and chain drive and uses standard 10-in. hacksaw blades (one included). Stamped base. Motor not included (order below). Order 2-in. motor pulley (catalog no. Z 84 FX 2878) and 30-in. belt (cat. no.

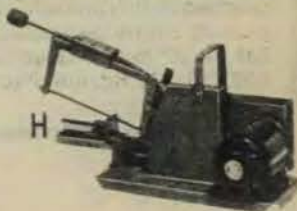
Z 84 FX 2876) in Wards 1980 Farm Book, page 73. Shipped unassembled.

84 A 2407—Wt. 27 lbs. 129.00

1/4-HP SPLIT-PHASE MOTOR for hacksaw above. Continuous duty, 1,725 no-load RPM. For 110-120 volt 60 Hz.

84 A 34520 MX—Wt. 13 lbs. 41.95

Adjustable hacksaw
\$129



Powr-Kraft 18,000 RPM shaper saves working time

I It cuts down on time because you get sanded-smooth cuts on the first pass, even in the hardest or softest stock.

FEATURES: Cuts plywood cross-grain without splintering. 1-HP direct-drive motor. Permanently-lubricated ball bearings. Fence adjusts 1/4-in. 1/2-in. spindle threaded 3 inches. 1/4-in. miter slot. Includes cast-iron top, cord, plug, stand.

84 A 2066 R—Wt. 70 lbs. 269.00

J Hold-down spring. Holds work in place.

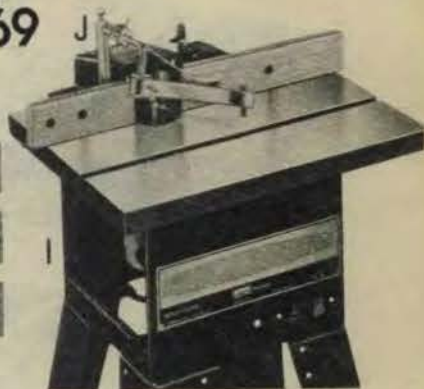
84 A 2477—Wt. 1 lb. 2 oz. 14.99

K 6-pc. cutter set. Consists of 1/4-in. tongue, cove/bead, glue joint, 1-in. straight, 1/4-in. groove, and cabinet door lip.

84 A 2469—Wt. 1 lb. 2 oz. 41.99

See Wards '80 Suburban Farm and Garden Book, for more cutters.

High speed
shaper with
stand
\$269



Motorized wood lathe with electronic speed control

L Motorized wood lathe.

FEATURES: Keylock switch, fluting index, No. 1 Morse taper spindle, ram, 3/4-16 thread spindle nose. Timing belt drive eliminates slipage to give "full-time" power. Has heavy steel bed. For 110-120V, 60 Hz. Select speeds from 800 to 2800 no-load RPM without changing belts. Has fully-enclosed 3/4-HP ball-bearing motor.

FUNCTIONS: Sands, polishes, shapes, and face plate turns with access. sold at right and in 1980 Farm Bk., pg. 71. Turns wood up to 14-in. diam., 36-in. long.

84 A 2025 R—Wt. 52 lbs. 274.00

M Steel stand for wood lathe. Unassem.

84 A 3252 M—Wt. 19 lbs. 47.99

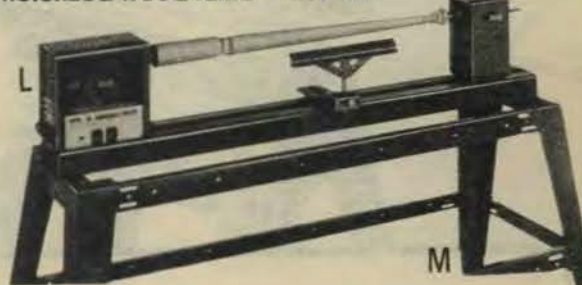
SAVE 11.92 on 8-PIECE, PRO-QUALITY WOOD TURNING SET for (L). 6-in. steel blades have hand-ground edges. 9 1/2-in. hardwood white ash handles. Plated ferrules. Set includes 3/4, 1/2, 1-in. gouges, 1/2, 1-in. skew, 1/2-in. spear, 1/2-in. round nose, 1/2-in. parting. Wood turning pieces separately 53.42.

84 A 2062—Wt. 6 lbs. set 45.00

4-PIECE SET for (L). Includes 3/4-in. gouge, 1/2-in. skew, 1/2-in. parting, and 1/2-in. spear.

84 A 3561—Wt. 3 lbs. set 25.00

Motorized wood lathe **\$274**



6 1/2 and 4 1/2-in. jointers with cutter guards for safety

N 6 1/2-in. jointer.

FEATURES: High-speed 3-knife cutter. Makes 18,000 separate cuts per minute up to 1/4-in. deep. Built-in motor. 1 1/2 HP with 100% sealed and permanently lubricated ball-bearings, timing-belt drive, and belt guard. Precision ground cast-iron table. Has fence which is fastened to table at two points for rigidity. Tilts 45° right or left. This jointer made with sealed ball-bearing cutterhead. Locking on/off switch. For 120V, 60 Hz. Partially assembled.

84 A 2424 R—Wt. 80 lbs. 349.00

4 1/2-in. JOINTER (not shown).

FEATURES: 3 knife cutter makes 18,000 separate cuts per minute up to 1/4-in. deep. Has built-in 3/4 HP motor. Sealed ball bearings. Cast iron table. Fence tilts 45° right or left. Jointer has pre-lubricated sleeve bearings. Locking on/off switch. Partially assembled. 120V 60 Hz.

84 A 2423 A—Wt. 46 lbs. 249.00

EXTRA CUTTER KNIVES for jointer #2423 or former jointer #2426. Pkg. of 3.

84 A 2427—Wt. 5 oz. pkg. 12.49

STURDY STEEL STAND provides firm support for both jointers above. Unassembled. Adjusts 24 1/2 to 31 1/2-in. high.

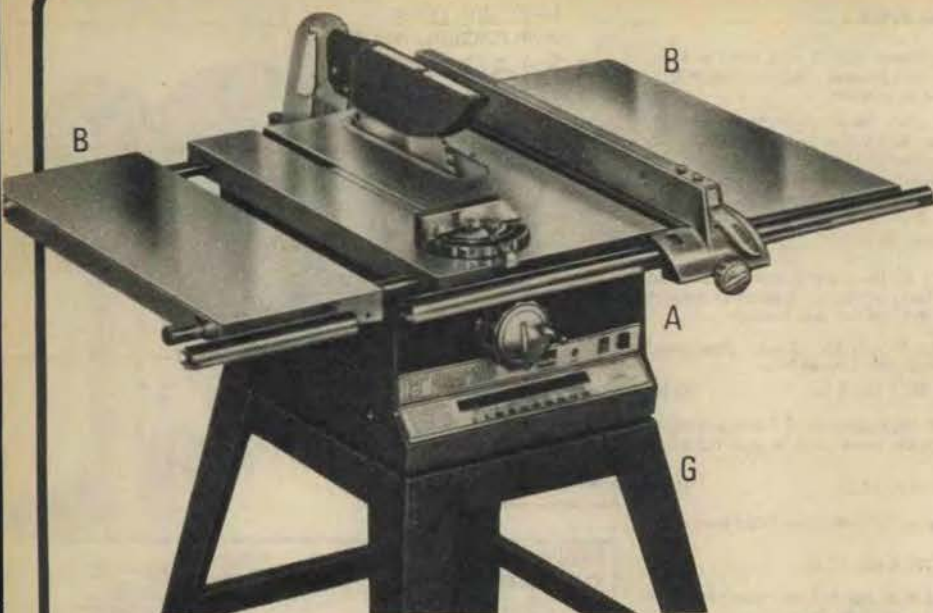
84 A 2931 MX—Wt. 22 lbs. 37.99

6 1/2 and 4 1/2-in. motorized jointer



\$349 6 1/2

ALL 951



12-in. motorized bench saw

An Outstanding Product

Wards biggest bench saw has a cast-iron table top that undergoes a rigorous grinding process for the flattest possible work surface. This flat work surface ensures more accurate cuts.

\$419

A FEATURES: Ball-bearing construction. Self-aligning rip fence locks front and rear with one simple motion. Miter gauge automatically indexes every 15°. All controls positioned up front. Push-button on/off switch with safety key lock protects against unauthorized use. Thermal overload switch protects against motor burnout, built-in safety clutch protects against overloads, burnouts, and kickbacks. Blade, motor, and belt tilt 45° to end dangerous belt twisting. **MOTOR:** 1½ HP, develops 2½ HP max. for cuts up to 3¾ in. deep.

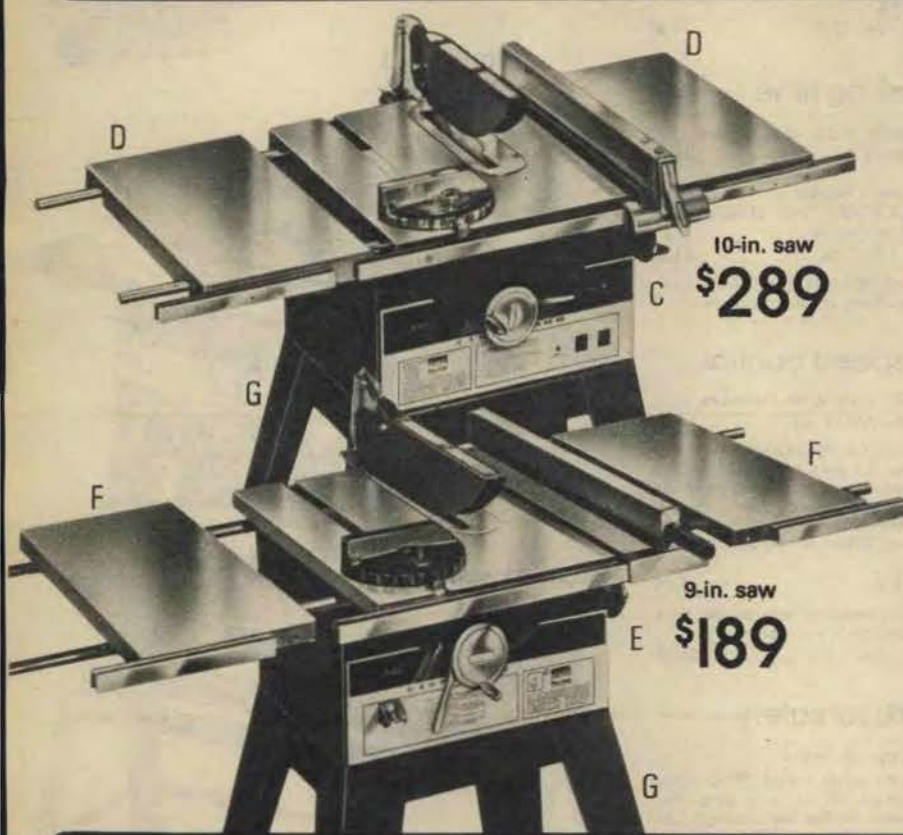
TABLE: Precision-ground 20x27-in. cast-iron. Order stand (G) below.

84 A 2717 R—Ship. wt. 120 lbs. 419.00

B 10x27 in. adjustable table extension. Permits rips up to 24 in. wide. Use on either side of saw.

84 A 2718 M—Ship. wt. 9 lbs. each 31.99

84 A 2634—Molding and dadoing insert. Ship. wt. 11 oz. 8.49



10-in. saw
\$289

C 10-in. bench saw. **FEATURES:** Thermal overload switch and safety clutch for protection against overloads, burnouts, and kickbacks. Pushbutton switch has safety interlock to prevent unauthorized use. Precision depth and angle controls. Blade, motor, and belt tilt 45° as a unit to end dangerous belt twisting. **MOTOR:** 1 HP, develops 2 HP maximum. Cuts to 3¾ in. deep. Sealed ball bearing construction.

TABLE: 17x20-in., cast iron. Includes motor, belt pulley, combination blade, blade guard, miter gauge, and rip fence. Order stand (G) below.

84 A 2715 R—Ship. wt. 78 lbs. 289.00

D Adjustable extension for saw (C). Use on either side of saw to rip up to 24 in. wide. Measures 9x20 in.

84 A 2716—Ship. wt. 8 lbs. each 28.99

E 9-in. bench saw. **FEATURES:** Depth and angle controls positioned for easy and accurate operation.

MOTOR: ¾ HP. Timing-belt drive. Sealed ball-bearing construction. Permits cuts up to 2¾ in. deep.

TABLE: 17x20 in. Made of rustproof, shockproof Ferrolon.* Includes motor, belt, pulley, blade guard, combination blade, rip fence, miter gauge, and ¾-in. arbor. Order stand (G) below.

84 A 2714 M—Ship. wt. 45 lbs. 189.00

F Adjustable extension for saw (E). Use on either side of saw to rip up to 24 in. wide. Measures 9x20 in.

84 A 2719—Ship. wt. 9 lbs. each 26.99

10-IN. BENCH SAW OUTFIT (not shown). Same construction as (E) but cuts deeper to 3½ in. with its 1-HP motor. Develops up to 2 HP maximum. Includes 2 extensions (F), stand, miter gauge, rip fence, blade, and guard.

84 A 2282 R—Ship. wt. 75 lbs. outfit 299.00

G Steel stand for all saws on this page. Assembles easily.

84 A 3254 M—24½x27x22½ in. high. Wt. 14 lbs. 9 oz. 35.99

MOLDING/DADOING INSERT for (C), (E), and no. 2282R only.

84 A 2633—Ship. wt. 10 oz. 8.49

STOP ROD SET for repetitive cutting of same-size stock.

84 A 2626—Fit all saws, this pg. Ship. wt. 8 oz. set 6.49

Workshop lights, stands for stationary tools



952 ALL



H Steel stand for radial arm saws (A) and (C) on opp. page. Tapered legs are adjustable. Unassembled. Top braces not included; not needed for saws (A) and (C).

84 A 3270 M—Ship. wt. 17 lbs. 36.99

I Steel stand for saws and other power tools. Height adjusts from 24¼ to 31½ in. Unassembled.

84 A 2931 M—Ship. wt. 22 lbs. 37.99

J Adjustable shop light has 40 in. reach to direct light where needed. Clamps to workbench, table, or even power tool! Cycloc® vented shade remains cool to touch. Jet black finish is accented with handsome wood-look trim.

INCLUDES: Nylon clamp, 8-ft. cord, and on/off switch. Accepts up to 60-watt bulb (not included).

84 A 2963—Ship. wt. 4 lbs. 23.95

Cutter heads for saws above sold on page 951.



Radial arm saw develops 2 HP
\$319



Radial arm saw with high speed accessory spindle
\$389



Compare our price on this saw!

A 10-in. radial arm saw. CUTTING CAPACITY: Cuts 3 in. deep at 90°, 2½ in. deep at 45°. Crosscuts up to 15 in. wide. Rips up to 24½ in. MOTOR: Ball-bearing motor develops up to 2 HP maximum. Motor has clutch which disengages blade if work binds to protect against kickbacks or motor burnout. Voltage: 115 volts, 60-Hz. CONSTRUCTION: Sturdy single-yoke construction swivels motor and blade for rips up to 24½ in. Machined steel column, cast iron support, steel arm. FEATURES: Convenient scales and stops for miter, bevel cuts. Up-front elevating control. Automatic braking action stops blade in seconds. Resin-bonded table measures 40x24½ in. deep. On/off switch with keylock. Order stand for this saw and (C) on opposite page.
84 A 2609 R—Shipping weight 130 lbs. **319.00**

B Dust collector fits most popular brand radial arm saws. Connects to any home or shop type vacuum. Helps eliminate floating dust and chips while crosscutting or ripping.
84 A 2601—Shipping weight 1 lb. 12 oz. **14.99**

C 10-in. radial arm saw. CUTTING CAPACITY: Cuts 3 in. deep at 90°, 2½ in. deep at 45°. Crosscuts up to 15 in. wide. Rips up to 24½ in. MOTOR: Ball-bearing motor develops 2¼ HP. Motor has clutch which disengages blade if work binds. Voltage: 115 volts, 60-Hz. FEATURES: High-speed accessory spindle (15,800 RPM) which, combined with optional accessories (sold below), does effective routing and shaping to give wood projects that professional look. Sturdy single-yoke construction swivels motor and blade for rips of up to 24½ in. Convenient scales and stops for miter, bevel cuts. Automatic braking action stops blade and accessory spindle in seconds. Resin-bonded table measures 40x24½ in. deep. On/off switch with keylock. Order stand on opposite page or cabinet below.
84 A 2655 R—Shipping weight 130 lbs. **389.00**

D Assem. saw cabinet. Three drawers and storage compartment. Top can be drilled for other tools. Pull-down door covers front and has lock. Adj. feet.
84 A 3258 R—Order casters below. Ship. wt. 106 lbs. **129.99**
84 A 3257—Casters for (D). Set of 4. Ship. wt. 6 lbs. set **27.99**



Radial arm saw accessories

A Accessory kit for radial arm saw (C). Includes two adapters, sanding disc, cloth buff, drum sander, shaper-cutter, router bit, cut-off wheel, goggles for safety.
84 A 2614—Ship. wt. 6 lbs. 2 oz. kit **46.88**

B Bench and radial arm saw manual helps you get more out of your tool. 200 illustrations, 50 pages.
84 A 2632—Ship. wt. 10 oz. **5.99**

C Shaper fence for radial arm saws.
84 A 2438 X—Ship. wt. 14 lbs. **35.99**

D 10-IN. SANDING PLATE for radial, bench saws.
84 A 2628—Ship. wt. 3 lbs. 8 oz. **11.49**

E RUBBER SANDING DRUM. 2-in. face, 3 in. diameter. Fits arbor of saws (A) and (C). Medium grit leave.
84 A 2616—Ship. wt. 1 lb. 2 oz. **10.99**

F SANDING SLEEVES FOR RUBBER SANDING DRUM (above). State grit no.: No. 01 (fine), 02 (medium), 03 (coarse). Packages of three.
84 A 8051—Ship. wt. 8 oz. pkg. **2.29**

ACCESSORIES FOR SAWS (A) AND (C)	Cat. no.	Ship. wt.	Ea.
Shaper adapter	84 A 2612 X	4 oz.	5.79
Router adapter	84 A 2613 X	5 oz.	6.59

Cutter heads for radial arm saws are sold on page 951.



DeWalt 12-in. radial arm saw
\$799

CUTTING CAPACITY: Crosscuts to 16 in. Maximum depth of cut 4 in. Rips to 27 in.

MOTOR: Totally enclosed. Develops 3½ HP. 100% ball bearings. Voltage: 120/208-240 single phase.

FEATURES: 29½x38½-in. chipboard table has three clamps which align and lock rip fence securely. Recessed push-button switch has keylock. Designed for heavy-duty jobs such as long ripping, gang cutting, and wide miters. Automatic brake stops blade in seconds. Control function chart provides easy set-ups. Assembled, aligned, kerfed and use-tested at factory. Cadmium-plated column shields against rust deposits. Individual miter and clamp handles give accurate and positive positioning for miters.

Includes heavy-duty steel legs. Larger fan for faster cooling. Rigid column provides reliable support and accurate results. Lubricated-for-life ball bearings carry roller head on two machined tracks. Semi-assembled. Manufacturer's Warranty.*

84 A 2654 R—Ship. wt. 242 lbs. **799.00**

*Write for a free copy of Manufacturer's Warranty—see page 605.

Even at \$219 our lowest-priced radial saw performs all the basic woodworking cuts



DeWalt 8-in. radial arm saw. CUTTING CAPACITY: Cuts 2 in. deep with 8-in. blade at 90° angle, 1½ in. deep at 45° angle. 13/16-in. wide dado capacity. Crosscuts: 10½ in. rips 19½ in.

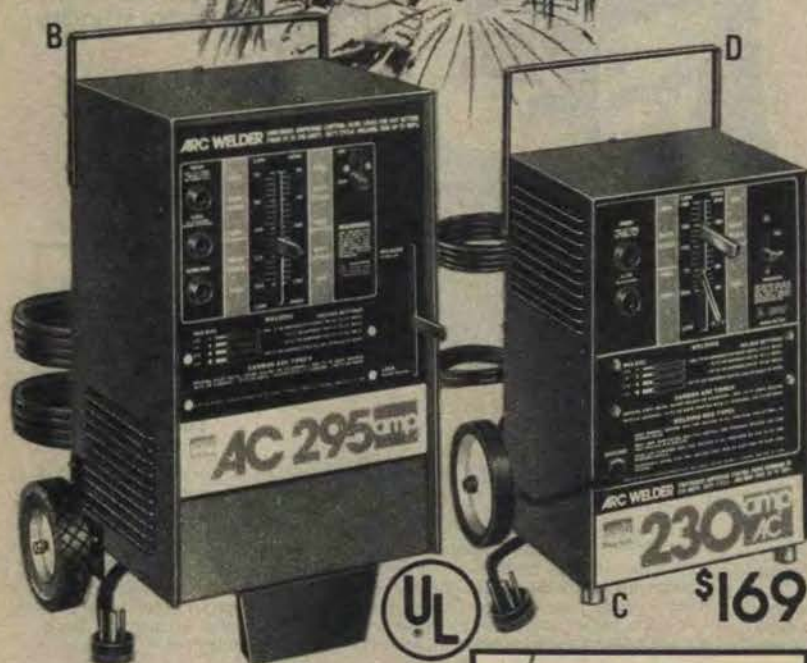
MOTOR: 2-HP, 10-amp delivers 5200 RPM. Roller bearings, ball-bearing roller head.

FEATURES: Instant blade halt when saw is turned off. Anti-kickback protection. Blade guard. Key starting system. Up-front bevel and elevation adjustment, easy-to-read scales. Positive stops for all regular cuts. 58-lb. weight allows easy movement from job to job. Flake-board table measures 22x32 in. 110-120V, AC. UL list. Semi-assembled. Mfr.'s warranty (above).
84 A 2652 R—Ship. wt. 70 lbs. **219.00**

STEEL STAND for saw 2652 above. Unassembled.
84 A 3255 M—Ship. wt. 35 lbs. **42.95**

Powr-Kraft arc welders for home, farm, shop

Use these arc welders to weld, cut, and pierce steel; braze, silver solder, heat-to-bend and temper metal (with carbon arc torch 84 A 5917 sold below).



A 295-amp. CAPACITY: Welds with any type AC electrode, including low hydrogen rod and stainless steel. Rugged fan-cooled transformer withstands higher heat, lasts longer. Increased duty cycle ranges 20-100%.

AMPERAGE: Dual range. High tap: 35 to 295 amps. Low tap (7 open-circuit volts): 25 to 230 amps. Continuous heat settings for an amperage from 25 to 295 amps.

ACCESSORIES: Cable and 300-amp ground clamp, electrode cable and 300-amp electrode holder, helmet, and instruction manual. With power cord, plug, and heavy-duty on/off switch. Steel cabinet measures 12x14x21 in. high. For 230V, 60-cycle, single phase AC. Use 60-amp time delay fuse. For rod sizes 1/8 to 1/4 in. (order on pg. 956). Order undercarriage (B) below. Wards Warranty below.

84 A 5956 R—Wt. 115 lbs. UL listed. NEMA rated. 209.00

B Undercarriage for 5956 has wheels, handle, hardware, instructions. 84 A 5928—Ship. wt. 7 lbs. 10.95

C 230-amp arc welder. CAPACITY Same as (A). AMPERAGE: Dual range continuous settings—40 to 180 amps for max. arc stability; 60 to 230 amps minimum current draw for general purpose welding. UL listed, NEMA rated.

ACCESSORIES: Same as (A) except uses 1/8 to 1/4 rods and 50-amp time delay fuse. Steel cabinet is 12 1/4 x 9 1/2 x 18 in. 84 A 5954 R—See Wards Warranty below. Wt. 68 lbs. 169.00

D Undercarriage for 5954 has wheels, handle, hardware, instructions. 84 A 58067—Ship. wt. 7 lbs. 8.45

Powr-Kraft carbon arc torch

E Powr-Kraft carbon arc torch. USES: Made for use with all arc welders having AC output. For 1/4 to 1/2-in. carbons.

84 A 5917—Up to 160 amperes. Ship. wt. 3 lbs. 22.95

BRAZING RODS for carbon arc torch 84 A 5917

above. 1/8 x 1/4-in. 1-lb. pkg. Ship. wt. 1 lb.

84 A 5987 . . . pkg. 6.79

COPPER-COATED CARBON ARC ELECTRODES

State size number.

Catalog no.	Size in.	Size no.	Pkg. of	Wt.	Price
Z 84 A 5988	1/8 x 1/4	14	8	3 oz.	4.89
Z 84 A 5989	1/8 x 3/8	30	6	4 oz.	4.89
Z 84 A 5988	1/8 x 1/2	12	4	5 oz.	4.89



A \$209



E Carbon arc torch 22.95



G 200-amp AC arc welder



F

F 200-amp AC arc welder. CAPACITY: Advanced energy-saving transformer is fan-cooled to withstand higher heat, last longer. Duty cycle ranges to 100%.

AMPERAGE: Continuous heat settings for any amperage from 40 to 200 amps.

ACCESSORIES: Cable and ground clamp, electrode cable and electrode holder, helmet, and instructions. With power cord, plug, on/off switch. Steel cabinet measures 12 1/4 x 9 1/2 x 18 in. high. For 230V, 60-cycle AC. Use 50-amp fuse. For rod sizes 1/8 to 1/4 in. (order on page 956). NEMA rated. UL listed. See Wards Warranty below.

84 A 5929 R—Ship. wt. 67 lbs. 139.99

G Undercarriage for 5929, incl. wheels, handles, hardware. 84 A 58067—Ship. wt. 7 lbs. 8.49

FULL ONE YEAR WARRANTY

Montgomery Ward warrants this welder against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. For warranty service return welder with required evidence of date of purchase to any Montgomery Ward branch. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

954 WARDS ALL



115V pro type welder

H 100-amp, 115V arc welder. CAPACITY: Fan-cooled transformer withstands higher heats, lasts longer.

USES: Weld steel, and pierce sheet metal. Electrode holder a ground clamp convert to carbon arc torch for brazing, silver soldering, and heating-to-bend metals. For auto, cycle, machine maintenance, etc.

AMPERAGE: Continuous heat settings from 25 to 100 amps.

ACCESSORIES: Cable and ground clamp, electrode holder, helmet, instructions, and sample rod pack. For 115V. Use 20-amp time delay fuse. For rod sizes up to 1/4 in. See Warranty below. Measures 10 1/2 x 9 1/2 x 15 in. high. This welder and 5993, 5994, 5951 (below) are truly portable. Use anywhere that regular 110 household current is available.

84 A 5992 R—UL listed. Ship. wt. 46 lbs. 119.00

I Undercarriage for (H). Unassembled.

84 A 5996—Ship. wt. 6 lbs. 7.95

100-AMP, 115V ARC WELDER (not shown). Like (H) but does not have variable amperage control. 10 1/2 x 9 1/2 x 12 1/2 in. H.

84 A 5993 R—Ship. wt. 45 lbs. UL listed. 99.00



J 50-amp welder. USES: Welds steel up to 3/16 in. thick. Copper sheet metal. Converts to 9000° carbon arc torch for brazing, silver soldering, or heating-to-bend metals.

ACCESSORIES: Cables, electrode holder, helmet, instruction manual, carbon electrodes, and brazing rods. For 115V. Use 20-amp time-delay fuse. For rod sizes up to 3/16 in. See Wards Warranty below. 7 x 10 1/2 x 10 1/4 in. high.

84 A 5901 M—UL listed. Ship. wt. 31 lbs. 49.00

70-AMP OUTFIT (not shown). Similar to (J) above. Use up to 1/4-in. electrode. UL listed.

84 A 5951 M—Ship. wt. 32 lbs. 67.00

Welding rods for 115V welders

CARBON ARC CARBONS. Package of 8. 1/8 x 6-in.

Z 84 A 5988 X—State size no. 14. Wt. 3 oz. 4.69

IRON POWDER ELECTRODES FOR 115V or AC/DC

welders. 1/8-in., 5-lb. box. State size no. 332.

Z 84 A 5984 X—5 lbs. 4 oz. box 7.99

1/8-in. ELECTRODES. 1/2-lb. pkg.

84 A 5980—Wt. 8 oz. pkg. 2.95

3/16-in. ELECTRODES. 1/2-lb. pkg.

84 A 5981—Wt. 8 oz. pkg. 3.95

1/4-in. brazing rods. 1-lb. pkg.

84 A 5982—Wt. 1 lb. pkg. 6.95

Powr-Kraft AC/DC welders are more versatile



here's why:

★ They deliver 3 kinds of welding electricity: DC reverse polarity, DC straight polarity, and regular AC electricity

★ Handle any type AC or DC electrode made

★ DC output is best for all-position welding

230-amp AC, 180-amp DC arc welder.

USES: Weld, cut and pierce steel, weld sheet metal, cast iron, high carbon steel, stainless steel. Braze, silver solder, heat-to-bend and temper metal with carbon arc torch (84 A 5917) sold on opposite page. DC output is best for all-position welding.

CAPACITY: Welds with any type AC or DC electrode including low hydrogen stainless steel, hard surfacing, arc aluminum, and arc bronze. Fan-cooled transformer is quiet, withstands higher heat, lasts longer. Duty cycle ranges to 100%.

AMPERAGE: Continuous heat settings for any amperage from 25 to 230 amps AC (78 open-circuit volts), 20 to 180 amps DC.

ACCESSORIES: Cable and 300-amp ground clamp, electrode cable and 300-amp electrode holder, helmet, and instruction manual. Heavy-duty on/off switch. For 230V, 60-cycle, single phase AC. Use 60-amp fuse. For rod sizes 1/8 to 3/8 in. (order on page 956). Order undercarriage (B) on opposite page. See Wards Warranty on opposite page.

84 A 5959 R—NEMA rated, CSA approved. Ship. wt. 123 lbs. 319.00

250-AMP AC, 250-AMP DC ARC WELDER (not shown). Same as 84 A 5959 R (above) except has continuous heat settings from 30 to 250 amps AC, 30 to 250 amps DC.

84 A 5958 R—For rod sizes 1/8 to 3/8 in. Ship. wt. 138 lbs. 379.00



Both AC/DC welders sold above include these accessories

230 amp AC
180 amp DC

\$319

250 amp AC
250 amp DC

\$379



Engine-driven welders have built-in generators for emergency AC power

A 225-amp DC portable arc welder.

USES: Weld, cut, and pierce steel. Generates 3,000 watts, 115V, 60 HZ to operate lights, tools, etc. during emergencies.

CAPACITY: Handles up to and including 3/8-in. rod. 100% duty cycle. ONAN super CCK 2-cylinder air-cooled engine has electric start, two 12-volt batteries, automatic idler and 5.3-gallon gas tank.

AMPERAGE: Infinite current range 40-225 amps DC, straight or reverse polarity. 20 1/2 x 38 1/2 x 26 1/2 in. high. Mfr.'s warranty, write for free copy, see pg. 605.

84 A 5932 R—Ship. wt. 597 lbs. 1789.00

ACCESSORY KIT FOR (A).

Includes 30-ft. no. 3 electrode and ground cables, helmet with #12 filter plate, cover plate, electrode holder, ground clamp.

84 A 5936 AA—Ship. wt. 19 lbs. 78.00

B Undercarriage with handle, pneumatic tires.

84 A 5938 R—Ship. wt. 60 lbs. 83.00

C Engine-driven AC portable arc welder.

USES: Generates 4,500 watts, 115V, 60 HZ—enough power to light 45 100-watt bulbs or drive a 3/4-HP motor. CAPACITY: Handles up to and including 3/8-in. electrodes. 100% duty cycle. 1-cylinder air-cooled engine has easy-spin rope start and 1 1/2-gallon gas tank.

AMPERAGE: Current range from 60 to 150 amps AC with 7-position switch. Measures 18 1/2 x 24 1/2 x 24 1/2 in. high. Mfr.'s Warranty, for free copy, see pg. 605.

84 A 5933 R—Ship. wt. 303 lbs. 879.00

ACCESSORY KIT for (C) includes headshield with filter, cover plate, electrode holder, ground clamp, electrode and work cables, sample electrodes.

84 A 5935 A—Ship. wt. 9 lbs. 38.00

D Undercarriage with handle, semi-pneumatic tires.

84 A 5937 AA—Ship. wt. 33 lbs. 49.00

Why drive?

Shop by phone . . . see pages 600, 601

**LINCOLN
ELECTRIC**



T.I.G. welding equipment

E High frequency unit for all AC and AC/DC welders.

Develops extra welding power . . . establishes an arc without touching electrode to metal. Easy-to-weld with stainless steel, cast iron and low hydrogen rods. Use alone for better electrode welding, or in T.I.G. welding process with torch (F). 120V, AC. Includes cables. Fits Powr-Kraft 295-amp AC/DC welders and others with 3/4-in. jacks. All others including Powr-Kraft 230-amp require conversion kit. Not for gas-driven arc welders.

84 A 5969 R—Ship. wt. 23 lbs. 109.00

F T.I.G. torch set for use with unit (E). Tungsten-inert gas process handles tough welding jobs. Includes regulator gauges, hose, shut-off valve. Obtain gas from supplier.

84 A 5968 R—Ship. wt. 5 lbs. set 99.99

SAVE \$9 on complete T.I.G. welding process set. Includes (E) and (F). Separately 208.99.

84 A 5967 R—Ship. wt. 28 lbs. set 199.97

REPLACEMENT PARTS for T.I.G. torch. Items are shipped to you from factory in Minneapolis, Minn. You pay transportation and handling charges from Catalog Mdse. Distribution Center on Back Cover of catalog. Allow 20 days plus transit time for delivery; see pg. 599 for general information on delivery. Sorry, no C.O.D.'s.

1/16-IN. COLLET. Ship. wt. 2 oz.

84 A 5972 K each 3.89

1/8-IN. COLLET. Ship. wt. 2 oz.

84 A 5974 K each 3.89

CERAMIC CAPS. Ship. wt. 2 oz. each.

84 A 5977 K 2 for 4.99

TUNGSTEN. 6x1/16 in. Package of two.

84 A 5978 K—Ship. wt. 2 oz. 2 pkgs. 5.99

TUNGSTEN. 6x1/8 in. Package of two.

84 A 5979 K—Ship. wt. 4 oz. 2 pkgs. 9.99

See more electric welding accessories on pg. 956.

ALL WARDS 955



\$179 Acetylene-propane oxygen cutting outfit

REGULATORS: Heavy-duty UL listed fuel gas and oxygen regulators.

CUTTING TORCH: Heavy-duty, large bronze head torch for better heat dissipation.

CUTTING ATTACHMENTS: Size 2 acetylene and propane cutting tips with cutting capacity of 2 in. Has 6-in. cutting capacity with optional tips 84A5870 and 84A5899 sold below.

ACCESSORIES: Hose, goggles, lighter reverse flow check valves, and instructions.

84 A 5850 MD—Ship. wt. 17 lbs. outfit 179.00
When purchased with (B) at right 169.00

14⁹⁹ A



Propane torch kit

A INCLUDES: Torch, steel propane tank, copper solder tip, flame spreader, pencil-point burner, utility burner, and spark lighter. Metal storage case.

FEATURES: Delivers 2,300° heat instantly. Filtered orifice prevents clogging. Ideal for soldering, thawing pipes and locks or removing paint.

84 A 6180 RY—Wt. 4 lbs. 8 oz. kit 14.99



SAVE \$10

when you buy selected welding outfits with tank set

Tank set with cart

B Oxygen-acetylene tank set with wheel cart.

FEATURES: Steel tanks have brass machined valves. Acetylene "MC" tank has 10-cu. ft. capacity, oxygen "R" tank has 20-cu. ft. Cart 26x14x8-in. deep.

INCLUDES: Tank shelf, guard rail, brackets, wheels, adj. handle. Semi-assembled. Save \$10 on outfits sold on these 2 pages (except 84 A 58036 M and 84 A 58035 MD) when you buy outfit with tank set.

84 A 58030 YG—Ship. wt. 34 lbs. 149.00

"MC" ACETYLENE TANK ADAPTOR.

84 A 58100—Wt. 10 oz. 7.99

TANK STORAGE CART (not shown) includes bracket to hold one oxygen (20-cu. ft. "R" tank) and one acetylene (10-cu. ft. "MC" tank). Sturdy tubular zinc-plated steel frame.

84 A 58029—Semi-assem. Wt. 9 lbs. . . . 29.95

Gas welding accessories to complete your welding outfit

- C** Circle cutter. Fits all cutting torches.
84 A 5818—Ship. wt. 1 lb. 4 oz. 32.95
- D** Replacement cutting attachment for outfits 58011, 58014, 58016.
84 A 5869—Tips sold below. Ship. wt. 1 lb. 10 oz. 48.50
84 A 5863—Welding torch for outfits 58016, 58014. Wt. 1 lb. 10 oz. . . . 42.50
- E** Reverse-flow check valves. Prevents mixing of gases in hoses.
84 A 5804—Set of two. Ship. wt. 4 oz. set 9.99
- F** Replacement gas mixer for outfits 58011, 58014, and 58016.
84 A 58021—Ship. wt. 4 oz. 10.49
- G** Multi-flame heating assembly. For outfits 58014, 58016. Backfire-free.
84 A 5813—Ship. wt. 1 lb. 6 oz. 29.99
- H** 20-ft. twin-type welding hose. Neoprene covered, oil resistant.
84 A 5896—Ship. wt. 3 lbs. 14 oz. 17.99
- I** Gas regulators, industrial size; UL listed.

For gas	Stages	Catalog no.	Ship. wt.	Each
Oxygen	One	84 A 5893	4 lbs.	44.99
Oxygen	Two	84 A 5891	6 lbs.	59.99
Acetylene	One	84 A 5894	4 lbs.	43.99
Acetylene	Two	84 A 5892	6 lbs.	59.99

- J** Welder's goggles. No 5 lens. Gas welding only.
84 A 5923—Ship. wt. 6 oz. 4.99
- K** Full-view goggles. Fit over eyeglasses. Plastic frame. No 5 lens.
84 A 5922—Ship. wt. 8 oz. For gas welding. 7.99

Always wear protective eye covering when using any welding equipment. See Wards line of gas and electric safety equipment sold on this page.

Welding tips for 58035, 58036, and 58032.

Size	Welds	Cat. no.	Wt. oz.	Each
000	1/8 in.	84 A 58120	3	5.99
0	3/16 in.	84 A 58121	3	5.99
2	1/4 in.	84 A 58122	4	5.99
4	5/16 in.	84 A 58125	4	5.99

Cutting tips for 58035, 58036 and 58032.

Size	Cuts to	Cat. no.	Oz.	Each
0	1/8 in.	84 A 58130	3	6.99
1	3/16 in.	84 A 58131	3	6.99
2	1 1/8 in.*	84 A 58132	3	6.99

*2-in. when used with outfit No. 58036.

Propane cutting tip. Cutting capacity: 1/2-in.
84 A 58128—Ship. wt. 3 oz. 6.49

Welding tips for welders 58011, 58014 and 58016. State size.

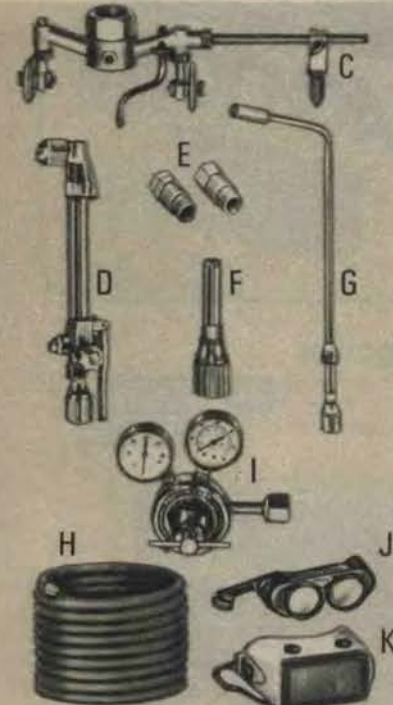
Z 84 A 58020—Ship. wt. 3 oz. each 5.99

Size:	0	1	2	3	4	5
Welds	32 ga.	1/8 in.	3/16 in.	1/4 in.	5/16 in.	3/8 in.

Oxy-acetylene tip cleaner. 6 sizes.
84 A 5815—Ship. wt. 1 oz. 2.99

Cutting tips for gas welders. Wt. 3 oz. each.

Cuts to, in.	State size no.	For outfits 58011, 58014, 58016, Z 84 A 58070	For outfit 5850 Z 84 A 5899
1/4	20	ea. 6.49	ea. 6.49
5/8	10	ea. 6.49	ea. 6.49
1	01	ea. 6.49	ea. 6.49
2	02	ea. 6.49	ea. 6.49
4	03	ea. 6.49	ea. 6.49
6	04	ea. 6.49	ea. 6.49



Electric welding accessories to complete your welding outfit

- L** Ground clamp. For cable No. 6 to No. 1.
84 A 5973—300-amp cap. Wt. 1 lb. 4.99
- M** Electrode holder. 300-amp capacity.
84 A 5916—Heavy-duty. Wt. 1 lb. 9.95
- N** General purpose type 6013 electrode. All position for AC or DC. 5-lb. box. Ship. wt. 5 lbs. 4 oz. each. State size no.

Cat. No.	Size, in.	Size no.	Each box
Z 84 A 5984	1/8x12	332	7.99
Z 84 A 5984	1/8x14	18	5.99
Z 84 A 5984	1/8x14	532	5.99
Z 84 A 5984	1/8x14	316	5.99

N Forged steel chipping hammer. Chisel with wire brush.
84 A 58071—Ship. wt. 1 lb. 7.99

O 230-240 v. outlet for all 230 v. arc welders.
83 A 180—UL listed. Ship. wt. 15 oz. . . . 5.99

P Welding extension power cord for 295 and 230-amp welders and AC/DC welders. 25-ft. long; 230-240 volt; 3-wire; insulated.
84 A 5947—Ship. wt. 10 lbs. 42.99

Q Wide-vision welding helmet. No. 10 lens; cover plate. 4 1/2 x 5 1/2 in.
84 A 5920—Ship. wt. 3 lbs. 14.99

R Industrial welding helmet. Replaceable lift-front lid. Cover plate, head band.
84 A 5900 L—No. 10 lens. Ship. wt. 3 lbs. . . 15.99
84 A 5965—Welder's helmet (not shown). Cover plate. No. 10 lens. Ship. wt. 2 lbs. 7.99

S Our best heavy-duty welder's gloves. Leather. For gas or electric welders. Large size.
84 A 5961—Ship. wt. 10 oz. 7.99

Welder's gloves (not shown). For gas or electric. 84 A 5960—Large size. Ship. wt. 10 oz. . . . 3.99

25-ft. welding extension cable (not shown). 3/4-in. jacks fit 295-amp welder and AC/DC welders.
84 A 5946—Ship. wt. 7 lbs. 32.99

Welding rods in 5-lb. boxes. Ship. wt. 5 lbs. 4 oz.
84 A 5989—E-7018, 1/8-in. low hydrogen rod. Resists cracking in high carbon steel. box 5.49
84 A 58086—E-6011, 1/8-in. deep penetrating rod. Penetrates rust, scale, paint, etc. box 5.49
84 A 5921—1/8-in. cutting rod cuts better. . . box 9.49



See electric arc welders sold on pages 954, 955.

Heavy-duty two-stage gas welding outfit

This outfit has 2-stage regulators for constant even pressure; accurate delivery. Includes positive balanced grip torch for easier welding; large grip knobs for faster, easier adjustments.

WARDS BEST \$199

REGULATORS: Two-stage oxygen and acetylene. Heavy-duty. Pressure tested. UL listed. Keep pressure at the torch constant as pressure in the tank changes. Eliminates need for frequent adjustments. New easy-grip knobs make pressure settings easier, even when wearing safety gloves.

TORCH: 1 piece body. Positive balance grip to reduce arm fatigue. Spiral mixer for flashback protection. Double "O" ring for hand-tight connections. Welds steel up to 1/4-in. thick; to 1/2-in. thick with optional tips see pg. 956.

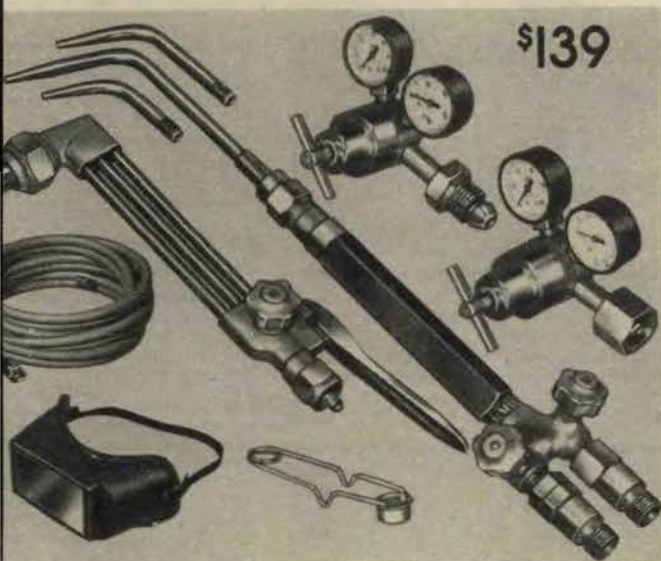
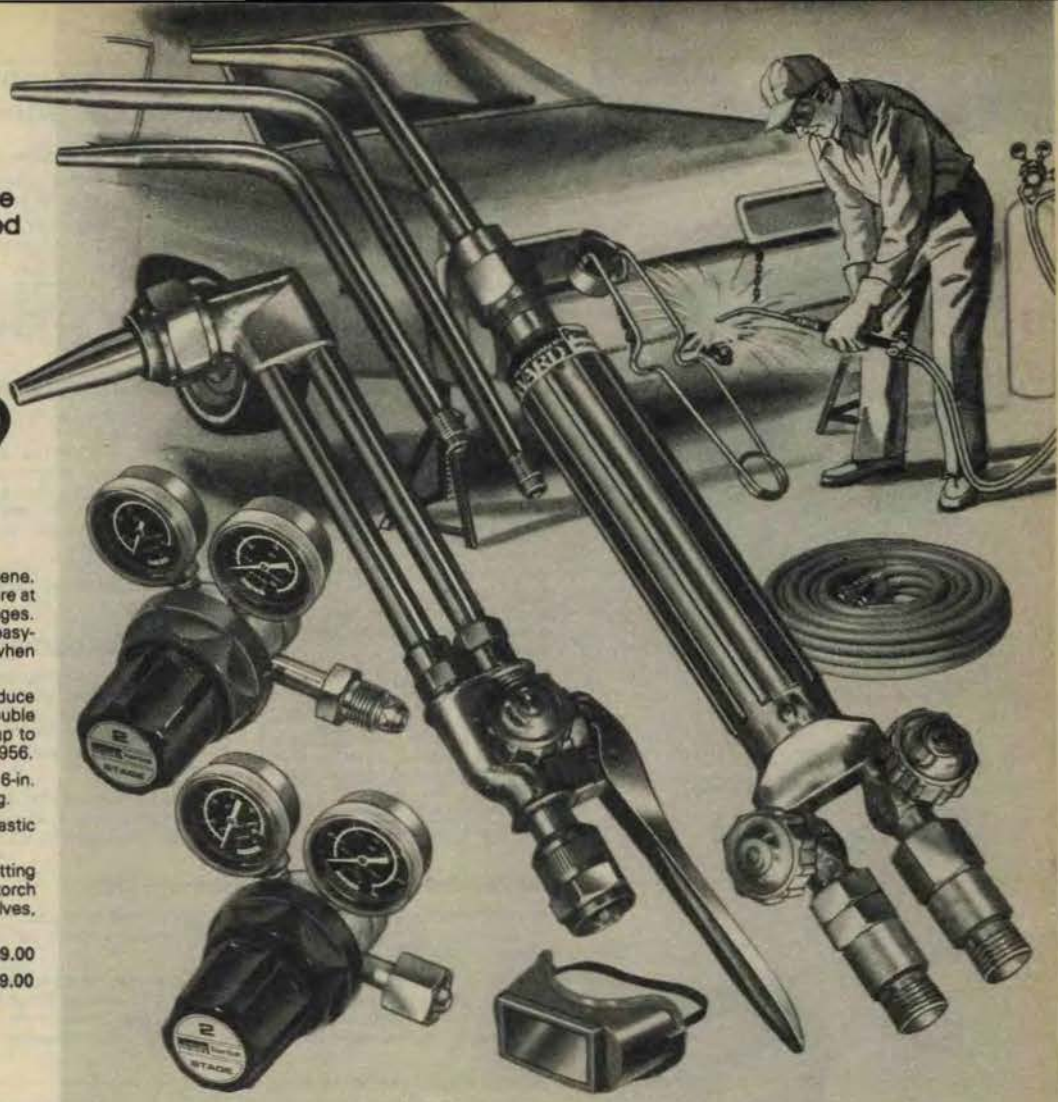
CUTTING ATTACHMENT: Cuts to 1-in. thick; up to 6-in. thick with optional tips. Bevels steel before welding.

GAUGES: Easy-to-read 2-in. size Tough Lexan® plastic lens covers.

ACCESSORIES: Torch, 3 tips (nos. 0, 2, 4), cutting attachment with no. 0 tip. UL listed regulators, torch lighter, 20-ft. twin hose, goggles, safety check valves, instruction manual.

84 A 58032 MD—Wt. 18 lbs. outfit 199.00

When purchased with (B) on page 956, . . . outfit 189.00



\$139

Our good single stage standard duty outfit

REGULATORS: UL listed oxygen and acetylene. Pressure-tested, brass forged.

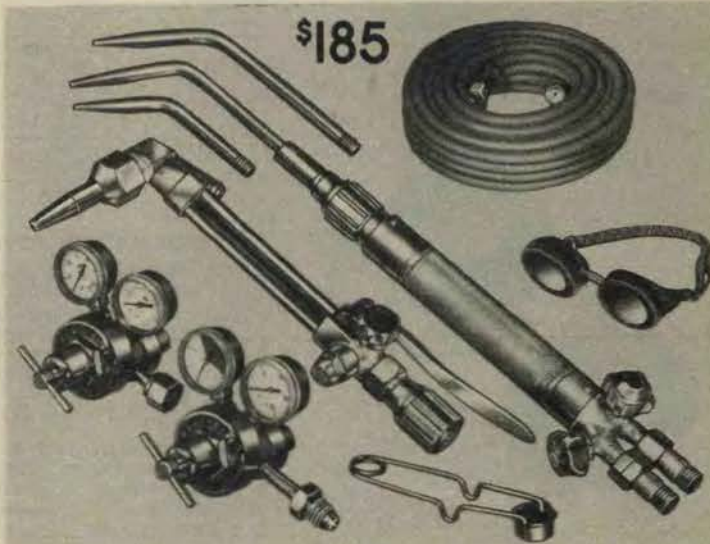
FEATURES: Torch is balanced with spiral mixer for flash-back protection. Welds up to 1/4-in. steel with optional tips sold on pg. 956. Cutting attachment: solid-forged brass No. 0 tip cuts up to 1/4-in. steel. Cuts up to 1/2-in. steel with tips sold on page 956. Gauges are 1 1/2-in. with black figures on white background. Strong, shatter proof Lexan® plastic lens coverings.

INCLUDES: 3 welding tips (000, 0, 2), torch, cutting attachment with No. 0 tip, twin hose, goggles, spark lighter, instructions, and check valves.

84 A 58036 M—Ship. wt. 10 lbs. outfit 139.00

SINGLE-STAGE HEAVIER-DUTY OUTFIT (not shown) similar to that described above, but with larger regulators, 2-in. gauges. Welds to 1/4-in., cuts to 2-in. (with tips sold on page 956).

84 A 58035 MD—Ship. wt. 15 lbs. outfit 149.00



\$185

Our better 2-stage outfit

REGULATORS: Two-stage. Brass-forged. Keep pressure at torch constant as pressure in tank changes. Pressure tested; UL listed.

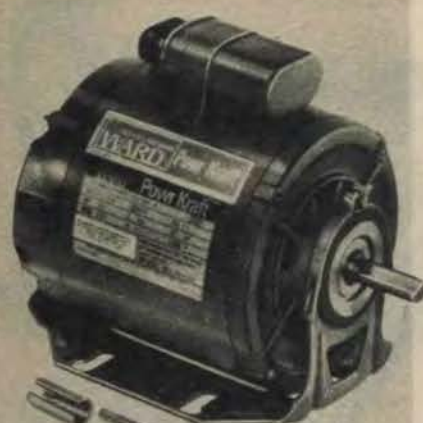
TORCH: Solid brass-forged. Balanced pressure no-flash mixer for added safety. Includes three tips—nos. 3, 5, 7 for welding steel up to 1/4-in. thick. Welds to 1/2-in. with optional tips sold on pg. 956. Brazes, silver solders, heats-to-band metals.

FEATURES: Cutting attachment has large bronze-head for fast heat dissipation. Cuts steel up to 6-in. thick (with tips sold on pg. 956). Bevels steel before welding. Gauges: 100, 3000 lb. oxygen; 15, 400 lb. acetylene. Easy-to-read 2-in. size with tough Lexan® covers. Includes torch, 3 tips, UL listed regulators, cutting attachment with no. 1 tip, torch lighter, 20-ft. twin hose, goggles, instructions, check valves.

84 A 58016 MD—Ship. wt. 16 lbs. outfit 185.00

When purchased with (B) on page 956, . . . outfit 175.00

Power-Kraft motors



A
64⁹⁵

Furnace fan/
blower motors



B 42⁹⁵

54⁹⁵ C



Heavy-duty motors

119⁹⁵ D



E 92⁹⁵



General use motors



F 62⁹⁵



958 WARDS ALL

High-efficiency furnace blower motor models deliver up to 20% greater efficiency than standard type motors

A FEATURES: Using an oil-type run capacitor, our energy-saving furnace motors drive at the same horsepower and RPM as standard furnace blower motors but draw less watts. The 1/2-HP motor draws only 358 watts, while most replacement motors draw from 400 to 480 watts. Lower wattage means less electricity and could mean substantial savings. Shaft adapter and key allow for 1/2-in. or 3/4-in. bore pulleys. Resilient mounting and pre-lubricated sleeve bearings give vibration-free, quiet operation. Automatic reset overload protection. Easily reversed,

quick change connectors.

FRAME: Replace original equipment motors with either NEMA 48 or 56 frames.

ELECTRICAL INFORMATION: 115-volt, single phase AC 60 Hz. See Wards Warranty below.

HP	RPM	WATTS	AMPS	Catalog no.	Ship. wt.	Price
1/4	1725	290	3.7	84 A 34530 M	15 lbs.	64.95
1/2	1725	358	4.4	84 A 34531 M	16 lbs.	69.95
3/4	1725	515	5.6	84 A 34532 M	19 lbs.	89.95

Direct drive-furnace fan/blower motors

B FEATURES: For direct-drive furnace blowers. Self-aligning sleeve bearings and rigid steel brackets. Open, air-over ventilator. Durable, corrosion-resistant baked enamel finish withstands moisture. Extended studs and rubber rings accommodate existing mounting fixtures. 1/2-in. shaft. For 110-120 volt 60 Hz. See Warranty below. Requires some mechanical ability to install.

Permanent split capacitor, 3-speed: 800 to 1050 RPM.			
HP	Cat. no.	Wt.	Price
1/4	84 A 34523	22 lbs.	48.95
1/2	84 A 34524	25 lbs.	57.95
3/4	84 A 34525	28 lbs.	63.95
Shaded pole, 4 speed: 800 RPM to 1050 RPM.			
1/4	84 A 34522	20 lbs.	42.95

Furnace blower motors

C Replace belt-driven 1/4, 1/2, or 3/4-HP furnace motors.

FEATURES: 1/2-in. shafts. Pre-lubricated sleeve bearing and rubber ring-mounts prevent vibration. Built-in overload protection. Easily reversed, quick change connectors.

FRAME: Fits either 3x4 1/2-in. (NEMA 56) or 2 1/2x4 1/2-in. (NEMA 48) mounting.

Heavy-duty capacitor start blower motors

USE: For units requiring extra starting power; use on heavy-duty furnaces, fans, blowers and air conditioners. Mounts in all positions—when horizontal, it's drip proof.

FEATURES: Automatic reset overload protection. 1/2-in. shaft. Quiet running sleeve bearings.

ELECTRICAL INFORMATION: For 115 volt, 60 Hz. AC. Warranty below.

HP	RPM	Catalog no.	Ship. wt.	Price
1/4	1725	84 A 34699 M	16 lbs.	54.95
1/2	1725	84 A 34697 M	19 lbs.	69.95

2-speed single base motors NEMA frame 56

HP	RPM	Catalog no.	Ship. wt.	Price
1/4	1140/1725	84 A 34512 M	21 lbs.	69.95
1/2	1140/1725	84 A 34510 M	27 lbs.	87.95

FRAME: 3x4 1/2 in. (NEMA 56) mounting size.

ELECTRICAL INFORMATION: For 110/120 v., 60 Hz. AC. Reversible. See full one year Warranty below.

HP	RPM	Catalog no.	Ship. wt.	Price
1/4	1725	84 A 34691 M	23 lbs.	87.95
1/2	1725	84 A 34692 M	27 lbs.	99.95
1	1725	84 A 34693 M	39 lbs.	125.95

Heavy-duty motors built for the big jobs

D USE: Ideal for continuous use requiring high starting torque such as pumps, ventilating fans, blowers, compressors, grain conveyors.

FEATURES: No brushes means no radio or TV interference. Double shielded, permanently-lubricated ball bearings. 1.15 service factor. Open drip-proof construction. Easily reversed. Single keyway shaft. 2-HP motor has an extended shoulder base for more effective cooling.

FRAME: Mounts vertically or horizontally.

ELECTRICAL INFORMATION: For 110/120 volt, or 230 volt single phase AC; except 5-HP which runs on 230 volt only. See Wards Full one-year Warranty below.

HP	RPM	NEMA frame	Mounting size/in.	Shaft diam./in.	Catalog no.	Wt. lbs.	Price
1	1725	143 T	5 1/2x4	3/4	84 A 34730 M	34	119.95
1 1/2	1725	145 T	5 1/2x5	7/8	84 A 34731 A	42	139.95
2	1725	145 T	5 1/2x5	7/8	84 A 34732 A	48	149.95
2	3450	145 T	5 1/2x5	7/8	84 A 34735 A	42	144.95
3	1725	184 T	5 1/2x7 1/2	1 1/4	84 A 34733 R	78	339.95
5	1725	213 T	5 1/2x8 1/2	1 3/4	84 A 34734 R	120	469.95

Easy-start split-phase motors

F USE: Ideal where maximum load is applied at full speed such as small compressors, appliances, light power tools, etc. See Warranty at right.

CONSTRUCTION: Continuous-duty, 1725 RPM motors. Reversible sleeve bearings with nylon thrust system. External studs. Resilient base.

ELECTRIC INFORMATION: For 110-120 volt, 60-Hz. AC. Motor with 8-foot, 3-wire cord and plug; on/off toggle switch. Mounting size: 3x4 1/2-in. (NEMA 56) frame. 1/2-in. diameter shaft.

84 A 34515 M—1/2-HP. Ship. wt. 18 lbs. 62.95

Motors without cord and plug. Mounting size: 2 1/2x4 1/2-in. (NEMA 48). 1/4, 1/2 HP have 1/2-in. shaft, 1/2-in. adapter. 1/2-HP has double shaft—1/2-in. and 3/4-in.

84 A 34520 M—1/4-HP, single-shaft. Ship. wt. 13 lbs. 41.95

84 A 34521 M—1/2-HP, single-shaft. Ship. wt. 15 lbs. 46.95

84 A 34519 M—1/2-HP, double-shaft. Ship. wt. 18 lbs. 52.95

Open capacitor-start motors

G USE: For belt-driven application with tools, pumps, compressors, etc.

FEATURES: Permanently-lubricated ball bearings. Easily reversed. Motor 84-A 34651 has 6-foot cord with plug. Motor 84-A 34658 has diamond-bored sleeve bearings.

FRAME: Rigid-mount. 3x4 1/2 inch (NEMA 56) mounting size.

ELECTRICAL INFORMATION: 115/230V, 60-Hz.

AC. Single phase. See Warranty at right.

HP	RPM	Overload protector	Catalog number	Wt. lbs.	Price
Single shaft (1/2-in. diam.)					
1/4	1725	None	84 A 34660 M	19	64.95
1/2	1725	manual	84 A 34654 M	19	76.95
3/4	1725	none	84 A 34661 M	23	92.95
1	1725	manual	84 A 34662 M	31	116.95
1 1/2	3450	manual	84 A 34663 M	21	89.95
3/4	3450	manual	84 A 34664 M	23	81.95
1	3450	manual	84 A 34665 M	30	92.95
Double shaft (1/2 flat, 1/2 keyway)					
1/4	1725	none	84 A 34658 M	19	67.95
3/4	3450	manual	84 A 34651 M	23	88.95

Enclosed capacitor-start motors

E USE: For longer life in oily, dirty environments with tools, pumps, compressors, conveyors, etc.

FEATURES: Ball bearing motors with manual reset overload protection (except 2-HP; also has 1/2-in. shaft). Easily reversed.

FRAME: All are rigid mount 3x4 1/2-in. except 2-HP which is 5 1/2x5-in.

ELECTRIC INFORMATION: For 115/230 volt single phase AC. See Warranty below, right.

HP	NEMA frame	Catalog number	Ship. wt.	Price
1725 RPM (single 1/2-in. shaft)				
1/4	56	84 A 34550 M	23 lbs.	92.95
1/2	56	84 A 34551 M	31 lbs.	98.95
3/4	56	84 A 34552 M	35 lbs.	109.95
1	56	84 A 34553 A	40 lbs.	129.95
1 1/2	56	84 A 34554 M	45 lbs.	174.95
3450 RPM (single 1/2-in. shaft)				
1	56	84 A 34652 M	29 lbs.	104.95
1 1/2	56	84 A 34653 A	39 lbs.	149.95
2	145T	84 A 34655 M	46 lbs.	174.95

Full One-Year Warranty

Montgomery Ward warrants this electric motor against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. For warranty service return motor with required evidence of date of purchase to any Montgomery Ward branch. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago IL 60671. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**SAVE TIME
SAVE GAS
SHOP BY PHONE
See pages
600-601**

Wards portable alternators—dependable, stand-by power when you need it!

1750 watts, recoil start

379⁹⁵

1750 to 6500 watts
5000 watts, recoil start

889⁹⁵

6500 watts, elec. start

\$1249

A-C Performance and dependability—the keys to Wards portable alternators.

ELECTRICAL FIELD DESIGN: Revolving field alternator. The revolving field—2 pole, 600 RPM, self-excited, drip-proof constructed alternator—is permanently aligned to the engine. Electrical power is produced in the stationary copper-wound stator. No commutator or load brushes. All copper windings. Separate exciter winding isolates the exciter system. No possibility to induce DC electrical power. Full capacity windings. All engines by Briggs & Stratton. Battery not included with electric start models.

RECEPTACLES: 1750, 2250 and 3000-watt single voltage models have 120-volt duplex. Dual voltage 3000, 5000-watt models have one 15-amp., 120-v. duplex and one 15-amp., 240-v. duplex; 6500-watt models have one 15-amp., 120-v. duplex, one 30-amp., 240-v. twistlock, and one 30-amp., 120-v. twistlock.

Single voltage alternators

Cap. Watts	Starting	HP	Fuel Cap.	Mins. running time/tank		Dimensions LxWxH in.	Ship. Wt. lbs.	Cat. No.	Price
				Full-load	1/2-load				
1750	Recoil	4	3 qt.	102	150	20½x14½x14½	85	89 A 27121 R	379.95
(A) 2250	Recoil	5	3 qt.	83	122	20½x14½x14½	97	89 A 27122 R	439.95
3000	Recoil	7	4 qt.	79	115	22x18½x18½	117	89 A 27123 R	619.95

Dual voltage alternators

3000	Recoil	7	4 qt.	79	115	27x18½x18½	120	89 A 27124 R	649.95
(B) 5000	Recoil	10	6 qt.	88	129	35x24½x21	170	89 A 27125 R	889.95
5000	Electric	10	6 qt.	83	120	35x24½x21	175	89 A 27126 R	969.95
6500	Recoil	16	8 qt.	53	77	35x24½x23½	207	89 A 27127 R	1199.00
(C) 6500	Electric	16	8 qt.	53	77	35x24½x23½	217	89 A 27128 R	1249.00

Belt-driven alternators—low cost source of power hooks to tractor or engine

CUT \$40-\$50 329⁹⁵ 419⁹⁵
3000 Watts 5000 Watts

Use your own garden tractor or engine to operate power tools, camping gear or to provide dependable power in times of emergencies. Cut from '80 Farm Book, pg. 127.

ELECTROMAGNETIC FIELD DESIGN: Revolving field alternator eliminates commutator and commutator brushes and provides alternating current to the load through positive, stationary connections. Self excited. All components of the excitation system are solid state. V-belts and pulleys not included.

RECEPTACLES: 2 duplex, 15-amp., 120-v. AC, 3-wire grounding for 120-v. Check minimum horsepower needed to operate. Volt meter included. Other specs below.

Power Output		Min. HP	Outlets Duplex 120-v	Shaft diam. in.	Dimensions LxWxH inches	Ship. wt. lbs.	Catalog number	Was Price	Now Price
Cap. watts	Av. motor Starting cap.								
3000	4500	7	2	.875	18½x8½x8½	58	89 A 27112 R	369.95	329.95
5000	7500	10	2	.875	20½x8½x8½	83	89 A 27113 R	469.95	419.95

Mounting platform. Fits all Wards 1978-80 twin 16- to 18-HP full size tractors. Wt. 16 lbs. 89 A 33438 M 64.95

89 A 33439 M—Fits '67-77 12-16 HP tractors (except 33424, 25, 70, 71)..... 64.95

Contractor alternators with equipment-saving circuit breakers

CUT \$20-\$40

\$679 3250 watts \$769 3750 watts \$929 5000 watts

Excellent source of stand-by and reserve power for contractors and commercial users.

ELECTRICAL FIELD DESIGN: Revolving field alternator. The revolving field—2-pole, 3600 RPM, self-excited, drip-proof constructed alternator—is permanently aligned to the engine. Electrical power is produced in the stationary copper-wound stator. No commutator or load brushes. All copper windings. Separate exciter winding isolates the exciter system. No possibility to induce DC electrical power. Full capacity windings. Superior insulation. Solid-state components throughout. Circuit breakers protect the alternators receptacles in cases of overload. Easy to reset.

ENGINE: All feature heavy-duty Briggs & Stratton industrial/commercial series engines. 8-HP engine on 3250 and 3750-watt models, 10-HP engine on 5000-watt model. 5000-watt model has idlematic control to reduce engine rpm's during surge and relief in alternator use. 6-qt. gas tank. Spark arrestor mufflers.

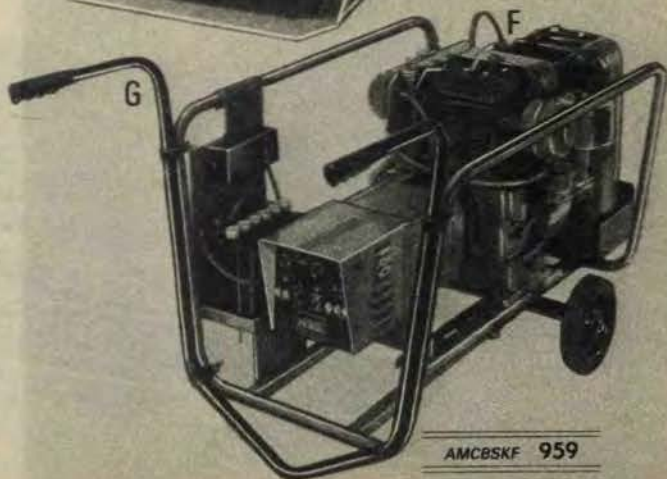
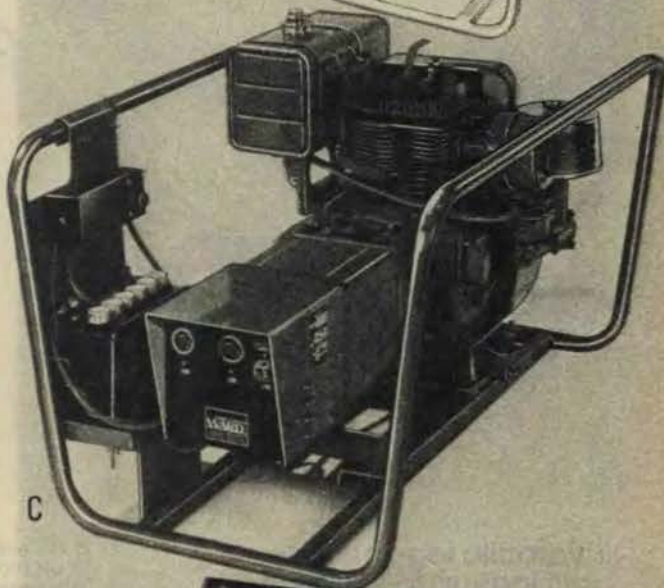
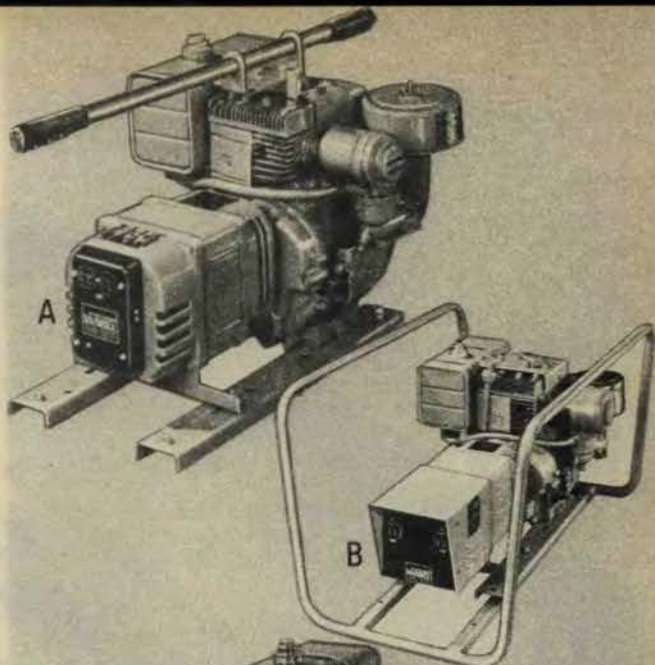
RECEPTACLES: Each control panel has one 120-v. duplex, 15-amp.; one 240-v. twistlock, 30-amp. with male plug; and one 120-v. twistlock, 30-amp. with male plug. Cut from '80 Farm Book, pg. 128.

89 A 27109 R—3250-watt. Ship. Wt. 124 lbs. Was 699.00 now 679.00

89 A 27110 R—3750-watt. Ship. Wt. 126 lbs. Was 799.00 now 769.00

89 A 27111 R—5000-watt. Ship. Wt. 173 lbs. Was 969.00 now 929.00

Dolly kit for use with contractor alternators plus models 27125, 27126, 27128 on top of pg. 89 A 27130 R—Ship. wt. 4 lbs. 29.95





Wards portable space heaters—
instant heat where you need it

An Outstanding Product

Burn low-cost, readily available kerosene, no. 1 fuel oil or winter grade diesel. And Wards unique burner head design means greater fuel efficiency

184⁹⁵ **234⁹⁵** **334⁹⁵**
40,000 BTU 55,000 BTU 97,000 BTU

A Choose the size right for your needs. Space heaters provide protection from low temperature damage and discomfort.

CONSTRUCTION: Compact heaters have tubular steel handles, metal case, heavy-duty stainless steel combustion chamber and nose cone. Unique burner head design holds flame toward the back of the combustion chamber giving the fuel mixture more burning time—the result is less odor and better burner efficiency. Includes rustproof template construction and fuel tank. All units include wheels.

SPECIAL FEATURES: Continuous ignition for sure starts. Automatic shut-off control shuts off heater within 15 seconds if ignition does not take place or flame goes off. Air output and fuel filters. Plugs into standard 115-v., 60-cycle AC outlet. Use in well ventilated areas.

SIZE, HEATING AREA: 150,000 BTU model—40Lx19½Wx25-in. H. Heats up to 28,195 cu. ft. 97,000 BTU model—40Lx19½Wx24-in. H. Heats up to 18,233 cu. ft. 55,000 BTU model—32½Lx15½Wx18½-in. H. Heats up to 10,500 cu. ft. 40,000 BTU model—33x15½x19-in. H. Heats up to 7,500 cu. ft. Order from chart below.

BTU	Motor HP	Hrs. of operation per tank	Tank cap. (gals.)	Fuel rate, per hr.	Wheel size in.	Catalog number	Ship. wt. (lbs.)	Price
40,000	1/20	13*	4	.35	6	89 A 21315 R	45	184.95
(A) 55,000	1/20	9*	9.4	.43	6	89 A 21322 R	55	234.95
97,000	1/8	17*	12	.7	8	89 A 21317 R	75	334.95
150,000	1/4	11*	12	1.1	8	89 A 21318 R	85	424.95

*NOTE: above 35° with thermostat.

Optional thermostat (not shown) regulates temp from 40°F to 90°F. Saves fuel. 89 A 21319 R—Ship. wt. 1 lb. 8 oz. 34.95

Hydraulic log-splitters split logs up to 26-in. long

869⁹⁵

Pro model

- 5-HP Briggs & Stratton engines power hydraulic systems

779⁹⁵

Home model

- Splitters deliver 2000 lbs. per sq. in. of splitting power

529⁹⁵

Economy model

- Entire splitting cycle takes 15 to 25 seconds

- Single lever control

- Units constructed of solid structural steel to last

B Our professional type log splitter features high-speed tires for superb portability.

OPERATION: Hydraulic ram forces log against 7-inch heat-treated cutter to split log. It can split logs up to 26 in. long with any diameter. Each splitting cycle takes less than 20 seconds. Single lever controls operation.

HYDRAULIC SYSTEM: 2-stage hydraulic pump produces up to 10 tons of splitting force (2000 lbs. per sq. in.). 1-gal. hydraulic oil reserve tank, 3-qt. gas tank. Built-in relief valve protects system from damage.

ENGINE: Dependable 5-HP (206 cc) Briggs & Stratton engine. Easy recoil starting.

TIRES, HITCH: 480/400x8 in. pneumatic tires and 1½-in. diam. ball hitch.

ORDERING INFORMATION: See other specs and order from chart below.

HOMEOWNER'S MODEL: (Not shown.) Features the same as above, but with low speed 10x1.75 semi-pneumatic tires and pin-type hitch. Order from chart below.

ECONOMY MODEL: (Not shown.) Delivers 7 tons of splitting force. Order from chart below.

OPERATION: Like above, except handles logs up to 19 in. long, any diameter.

HYDRAULIC SYSTEM: Single stage hydraulic system. 1-qt. oil reserve tank. 3-qt. gas tank.

TIRES, HITCH: Low speed 8x1.75 semi-pneumatic tires. Pin hitch.

Log splitter	Dimensions (inches)			Stroke	Hydraulic pump	Log capacity	Catalog number	Ship. wt.	Price
	Length	Width	Height						
(B) Pro	84	42	23	24-in.	2-stage	26 in.	89 A 24372 R	282 lbs.	869.95
Homeowner	77	36	21½	24-in.	2-stage	26 in.	89 A 24371 R	254 lbs.	779.95
Economy	58½	32	21	16	1-stage	19 in.	89 A 24375 R	175 lbs.	529.95





heavy-duty brush cutter/power scythe for big cutting jobs

269⁹⁹

A Cut saplings up to 1-in. in diameter, clear areas where you need extra power.
ENGINE: 3-HP (85 cc) 2-cycle Tecumseh engine with easy-spin recoil starting. Throttle control located on handle for fast response. Direct-drive transmission provides reliable operation. Positive on-off toggle switch.
CUTTER: Comes equipped with both 10-in. steel saw tooth brush blade and 11-in. tri-cut scythe blade. 52-in. durable steel main shaft.
HANDLING: Comfortable double-loop shoulder strap. Plastic grip handlebars.
8 A 24369 R—Ship. wt. 33 lbs. 269.99
 Spark arrestor kit (not shown) for use with above brush cutter/power scythe.
8 A 24360 M—Ship. wt. 1 lb. 7.99

Nylon line trimmer comes with 10-in. brush blade

86⁹⁹

B Versatile trimmer/brush cutter has strong steel gear-driven shaft.
ENGINE: 2-cycle, 26 cc air-cooled engine. Solid-state ignition. Diaphragm pump 1-position carburetor allows cutting at any angle. Pull starter. Built-in spark arrestor.
CUTTER: High-impact nylon cutting head with dual exit. Spool has 40 ft. of .080-diameter monofilament nylon line. Clears a 17-in. path. Includes 10-in. brush blade. Centrifugal clutch disengages at idle. Body harness included.
8 A 1932 R—Ship. wt. 20 lbs. 186.99

CUT \$30

Handyman's mixer delivers a 1/2-cu. ft. batch per minute 169⁸⁸

D Features Wards exclusive BATCH-A-MINUTE OUTPUT—Special figure 8 mixing with 4 removable blades: 2 curved elevating shovels, 2 double-bladed agitators. Fold and mix 1 1/2-cu. ft. of concrete in 60 seconds.
DRAW ASSEMBLY: 3-cubic foot dry capacity (ideal for mixing feed and other dry products) and 1/2-cubic foot wet capacity. Features 14-gauge steel bowl, 18-gauge steel cone. Tubular steel lever with rubber grip sets 5 dumping positions. Pierced ring gear is part of the drum bottom.
CONSTRUCTION: 1 1/4 x 1 1/4 x 1/4-inch angle steel frame, 12-gauge gusset plates withstand pressure. Won't bend or twist. Drip shield protects motor.
ORDERING INFORMATION: Cut from '80 Farm Book, pg. 139. See pages 138-140, '80 Farm Book, for tow kits, motor kit and more concrete mixers. Partially assembled.
8 A 26459 R—Ship. wt. 124 lbs. Was 199.95; now 169.88



Gas-powered nylon line trimmer with 26 cc engine

A WARDS best buy

119⁹⁹

Super priced grass-getter mows, trims, edges and clears weeds! Steel shaft quickly repositions to take on all tasks immediately. "Tap-n-Trim" lets you extend out more nylon line by just tapping cutting head lightly on the ground. And it doesn't have a long cord to drag around your lawn.

C Powerful, lightweight edger/trimmer gets the job done fast.
ENGINE: Powerful 2-cycle, 26.2 cc, engine starts easily because of solid-state electronic ignition. Engine is precisely balanced to provide maximum handling comfort. Noise is minimized with super-quiet spark arrestor muffler.
CUTTER: Steel shaft can be repositioned easily for edging sidewalks and driveways—no need to turn trimmer sideways. Cutting head with semi-automatic "Tap-n-Trim." Edger/trimmer comes with 40 feet of heavy-duty .080-in. diameter line.
89 A 1930 R—Comes assembled. Ship. wt. 14 lbs. 119.99
 Replacement spool of 350 ft. of line for units #1932 and #1930.
89 A 2059—Ship. wt. 1 lb. 13 oz. 11.99



AMCBSKF 961

3½-HP push-type rotary
with 20-in. steel deck

CUT \$47

A WARDS
**best
buy**

Our lowest price this year for an out-
standing mower. 3½-HP variable speed
engine by Briggs & Stratton. The rear
discharge design deck allows you to
trim close with both sides and maneuver
around obstacles easily.

Comparison shopped for value

179⁸⁸



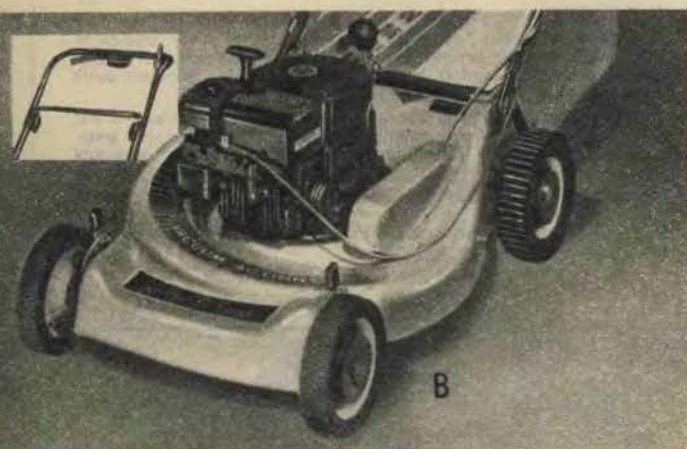
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A At Wards super price you get a great
cutting lawn mower that leaves no
debris.

ENGINE: 3½-HP (148 cc), 4-cycle en-
gine by Briggs & Stratton. Variable
speed adjusts to demands of various
cutting conditions. Sure, fast "Pull-n-
Go" recoil starting. Throttle control on
handle. Automatic choke makes for easi-
er starting and delivers more engine
power when needed.

DECK: 20-in. steel deck creates vacuum
that sucks up grass, leaves and debris
for clean cutting and efficient bagging.
Rear discharge lets you trim close to
trees, fences, walls, flowers, etc. with
either side of the deck. Safety door at
rear of mower snaps shut when bag is
removed, opens when bag is locked in
place. Grass catcher included. Bag made
of long-lasting fabric with easy-lift tab.
Instant action height adjusters set 5
cutting heights. Large 8-in. rear wheels
and 7-in. front wheels with ball bearings
for smooth rolling.

ORDERING INFORMATION: Covered
by Warranty, see page 974. Cut from the
'80 Spring Book, page 558. Was 226.99.
89 A 37197 R—Ship. wt. 83 lbs. 179.88



B

CUT \$37

3½-HP self-propelled rear
bagging mower

229⁸⁸

20-in. deck

B A super price for a rear-bagging self-propelled rotary mower—it takes the drudgery
out of lawn care.

ENGINE: 3½-HP (148 cc), 4-cycle Briggs & Stratton variable speed engine. Handle
mounted throttle and clutch controls. Rear wheel drive—power is provided by rear
wheels to give constant traction even on hills and inclines.

DECK: 20-in. steel deck creates vacuum action that sucks up grass, leaves and debris
for clean cutting and efficient bagging. Rear discharge for close-trim cutting along either
side of mowing deck. Easy empty catcher locks in position in rear of mower. Instant
action height adjusters allow for precise cutting height selections.

ORDERING INFORMATION: Cut from '80 Spring Big Book, pg. 558. Was 266.99.
Covered by Warranty, see page 974.
89 A 37321 R—Ship. wt. 88 lbs. now 229.88



C

962 WARDS ALL

CUT \$47

4-HP push-type rear
bagging mower

209⁸⁸

20-in. steel deck

C **ENGINE:** 4-HP (187 cc), 4-cycle variable speed engine by Briggs & Stratton. Easy
"Pull-n-Go" vertical starting. Automatic choke provides easier starts and adjust
engine power to cut through tall grass. Handle mounted throttle control.

DECK: Sturdy, long lasting steel deck. Folding handle for storage. Rear discharge
design allows for easy trimming along both sides of deck. Safety doors at rear of deck
close when bag is removed . . . open when bag is locked in place. Instant action height
adjusters set 5 cutting heights. Large flip-top grass catcher included.

ORDERING INFORMATION: Warranty, see pg. 974. Cut from '80 Spring pg. 558.
89 A 37199 R—Ship. wt. 87 lbs. Was 256.99; now 209.88

4-HP, self-propelled rear bagging rotary mower **CUT \$47**

Our deluxe lawn mower with features that make any mowing job a snap. Self-propelled with constant-traction rear wheel drive. Rear discharge design trims close on both sides. And has rugged, care-free aluminum deck.

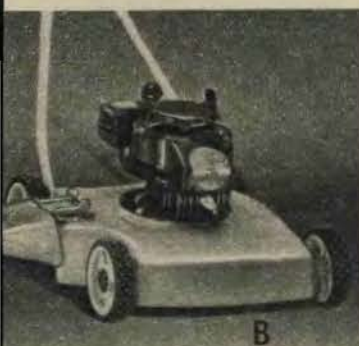


319⁸⁸
22-in. deck

A **ENGINE:** Powerful 4-HP (187 cc) variable speed Briggs & Stratton engine. Rear wheel drive maintains constant traction on hills and inclines, and makes your mowing job easier. Convenient on-handle squeeze-lever clutch control. "Pull-n-Go" vertical starting. Automatic choke provides easier starts and adjusts engine power to cutting job. Super-quiet Lo-Tone muffler, extended oil fill with dipstick. Handy throttle control on handle.

DECK: 22-in. rear-discharge aluminum deck is lightweight and carefree. Rear discharge lets you trim with both sides of deck and maneuver around obstacles easier. Doors at rear of deck snap shut when bag removed... open when bag is locked in place. Big flip-top emptying bag included. Single lever height adjuster changes cutting height at all 4 wheels in one action. Easy-roll 8-in. ball bearing wheels. Handle folds for storage.

ORDERING INFORMATION: Warranty, see page 974. Cut from '80 Spring Book, pg. 558. Was 366.99. Ship. wt. 97 lbs. 89 A 37315 R now 319.88



B

Wards lowest priced rotary lawn mower

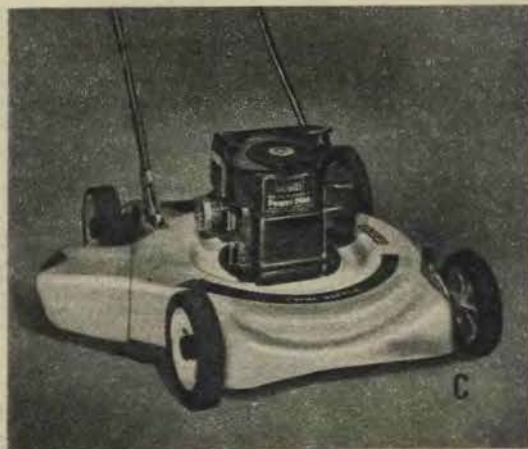
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B Even at this very low price Wards gives you a 3-HP rotary lawn mower.

ENGINE: 3-HP, 2-cycle Tecumseh engine. Features easy recoil starting.

DECK: Long-lasting 18-in. steel deck. Manual height adjusters.

ORDERING INFORMATION: Warranty, see pg. 974. Ship. wt. 45 lbs. 89 A 37169 R **86.88**



C

20-in., 3 1/2-HP push or self-propelled side-discharge rotary

CUT \$27 and \$22 139⁸⁸ 164⁸⁸

Push type Self-propelled

C **ENGINE:** Powerful 3 1/2-HP (148 cc) Briggs & Stratton engine with vertical "Pull-n-Go" starting. Compression release makes it 66% easier to start than conventional start engines. Automatic choke. Handle mounted throttle control. **DECK:** Twin baffle design 20-in. steel deck. Instant action height adjusters set 5 cutting heights.

ORDERING INFORMATION: Warranty, see pg. 974. Cut from '80 Spring, pg. 560. Order catcher below.

89 A 37128 R—Ship. wt. 60 lbs. Was 166.99; now 139.88

Grass catcher for side discharge mower #37128.

89 A 37856 M—Ship. wt. 7 lbs. 21.99

D Check Wards super low price for full-feature self-propelled rotary lawn mower!

ENGINE: 4-cycle, 3 1/2-HP (148 cc) engine by Briggs & Stratton. Easy-spin recoil starting. Automatic choke for easier starting and more engine power when needed. Front wheel pinion drive. Just raise the handle to go, lower to stop. **DECK:** 20-in. steel deck. Manual height adjusters.

ORDERING INFO: Warranty, see pg. 974. Cut from '80 Spring Book, pg. 560. Order catcher below.

89 A 37415 R—Ship. wt. 82 lbs. Was 186.99; now 164.88

Grass catcher for side discharge mower #37415.

89 A 37869 M—Ship. wt. 7 lbs. 21.99

SHOP BY PHONE

ALL WARDS 963



D Wheel weights **E** Tire chains **F** Weight box

CUT \$200

11-HP lawn tractor with 3-speed transaxle, 36-in. mower deck \$929

A 11-HP lawn tractor has 22-in. inside rear-tire turning radius for exceptional maneuverability to trim around trees and bushes.

ENGINE: 11-HP (399 cc) engine by Briggs & Stratton is synchro balanced to reduce vibrations. Electric key starting. Alternator recharges 12-v. battery.

TRANSMISSION: 3-speed transaxle design means no belts or chains from transmission to rear axle to adjust or lubricate. Transmission and differential are placed in one solid housing for strength and durability.

MOWER DECK: Equipped with 36-in. full-floating deck. The deck provides precision mowing because it's mounted to the front axle with rear of the deck having guide wheels for raising, lowering and tilting the deck as it follows the ground contour for no scalping. Cutting hts.: 1½ to 3½ in.

OTHER CONTROLS, FEATURES: 15x6.00 front and 18x8.50 rear tires. Electrical system: 12-v. battery, alternator, twin sealed beam headlights. Parking brake. Clutch/brake pedal. See Warranty* at right. Cut from '80 Spring, pg. 563.

89 A 33857 R—Ship. wt. 454 lbs. Was 1129.95; now 929.00

Attachments for Wards lawn tractors

B Heavy-duty snow thrower attachments. *Note model for your tractor.*

OPERATION: Auger chews through snow and blasts snow up to 25 feet away. Rotating discharge chute to direct throw. Control entire operation from tractor seat.

89 A 33849 R—36-in. model FITS TRACTORS: 33840, 33841, 33842, 33843, 33853, 33855, and 33860. Ship. wt. 180 lbs. 499.95

89 A 33871 R—36-in. model. FITS TRACTORS 33857, 33858, 33867. Requires lift kit #33873 below. Ship. wt. 178 lbs. 519.95

C Snow dozer blade is an excellent year-round attachment.

OPERATION: Angles right or left. Spring-loaded action protects blade. Blade bends forward when obstacle is hit, rights itself after passing.

89 A 33859 R—42-in. model FITS TRACTORS 33840, 33843, 33853, 33855, 33860. Ship. wt. 50 lbs. 169.95

89 A 33824 R—42-in. model FITS TRACTORS 1370, 1372, 1378, 1388, 1398, 1399, 1415, 1433, 1439, 33800, 33801, 33808, 33809, 33812, 33813, 33814, 33846, 33856. Ship. wt. 89 lbs. 189.95

89 A 33870 R—42-in. model FITS TRACTORS 33857, 33858, 33867. Requires lift kit #33873 below. Ship. wt. 92 lbs. 179.95

89 A 33873 R—Lift kit required for blade 33870, thrower 33871. Wt. 13 lbs. 54.95

D Plastic covered wheel weights. Set of 2 for rear wheels.

OPERATION: 40 lbs. total weight goes on rear wheels. Improves traction by adding extra weight to rear axle.

89 A 33862 R—FITS TRACTORS 33843, 33846, 33853, 33856, 33860. Ship. wt. 42 lbs. set 59.95

E Set of 2 tire chains for rear wheels. Check tire size, order.

89 A 1392 M—For 18x8.50—8 tires. Ship. wt. 16 lbs. set 37.95

89 A 1384 M—For 16x6.50—8 tires. Ship. wt. 12 lbs. 8 oz. set 32.95

89 A 1356 M—For 18x6.50—8 tires. Ship. wt. 14 lbs. 8 oz. set 35.95

F Weight box. Fill with material, adds up to 100 lbs. for extra traction for snow removal, plowing.

89 A 33872 R—For tractors 33857, 33858, 33867. Ship. wt. 27 lbs. 39.95

*FULL 1 YEAR WARRANTY. Montgomery Ward warrants this equipment in personal or family use against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. Equipment in other than personal or family use is warranted on the same basis for 30 days. This warranty does not cover normal operating adjustments to ignition parts or carburetor, or repairs necessary because of failure to operate or maintain equipment in accordance with instructions. For Warranty service contact any Montgomery Ward branch. Evidence of date of purchase required. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



5-HP electric start riding mower with 25-in. deck \$644

G Riding mower has one-piece, rust-proof fiber glass body to last for years!

ENGINE: 5-HP engine by Briggs & Stratton with easy electric key starting. Rear engine design directs noise and heat away from operator. Trickle charge included for overnight recharging.

TRANSMISSION: In line 4 forward speeds plus reverse. Full differential.

MOWER DECK: Comes equipped with 25-in. full-floating mower deck with guide wheels for scalp-free mowing. Change cutting heights on the go.

TIRES, BRAKES: Equipped with turf 10.50x3.50 semi-pneumatic front and 13.00x5.00 pneumatic rear tires. Disc type brakes.

89 A 34513 R—Warranty* above. Ship. wt. 262 lbs. 644.00

H Rear bagger collects clippings and debris as you mow.

OPERATION: Bagger attaches to rear of rider. Outer bag holds standard 30-gal. disposable trash bag (not incl.). Holds up to 75 lbs. Complete with discharge chute, mounting bracket and counterbalancing front weight.

89 A 34520 R—Ship. wt. 62 lbs. 149.95

89 A 350 M—Side-mounted catcher for rider. Wt. 16 lbs. 56.95



CUT \$500

16-HP, twin cylinder hydrostatic drive garden tractor—easy no-shift, no-clutch driving

Tractor with turf tires

\$1949

Tractor with Ag. tires

\$1999

A 1 lever control for direction and speed. Just like driving an automatic transmission car. Move control lever forward to go—the farther, the faster. Move it backward from neutral for reverse.

ENGINE: Twin-cylinder, vertical-shaft aluminum alloy 16-HP engine (656 CC) by Briggs & Stratton. Exclusive "Kool-Bore" design dissipates engine heat to prolong life of valves and bearings. Counteracting forces of opposed pistons mean reduced vibrations. Super Lo-Tone spark arrestor muffler. Choke, engine speed control.

TRANSMISSION: Dual-range transmission features a low range for tilling and plowing, a high range for mowing and transport. 0 to 5.5 mph. Dual range speed control lever. Lets you change transmission range from driver's seat.

FRAME: Bi-level, channel-steel frame forms a rigid box structure for good strength without excessive weight. Low mounted engine for better visibility. 30-in. inside turning radius. Overall tractor dimensions: 70% in. L., 35 in. W., 38% in. H.

OTHER FEATURES: Hydraulic Power-Lift to raise and lower attachments, electric key start, 12-v. battery, alternator, dual headlights. Separate parking brake.

ORDERING INFO.: Cut from '80 Farm Book, pg. 4. Tractor (A & B) has 16x6.50 front and 23x9.50-12 rear turf tires. Tractor 33425 (not shown) has BIG 23x10.50-12 rear ag. tires.

89 A 33424 R—Ship. wt. 560 lbs. Warranty*, opp. pg. Was 2449.00. now 1949.00

89 A 33425 R—(not shown) Ship. wt. 565 lbs. Warranty*, opp. pg. Was 2499.00. now 1999.00

42-in., heavy-duty snow thrower. 14-in. drum auger attacks any type snow.

OPERATION: Power transmits through belt to chain driven auger. Driver controls direction of throw from tractor seat. Chute rotates 240°. 20-in. auger opening. Adjustable front skids and scraper. Fits tractors above plus Ward models 33470 and 33471.

89 A 33477 R—Ship. wt. 220 lbs. 539.95

2-IN. HEAVY-DUTY SNOW THROWER (not shown). Similar to above but with 14% in. auger opening and fits Wards 1976-80, 16- to 18-HP twin-cylinder garden tractors (except 33424, 33425, 33470, 33471).

89 A 33431 R—Ship. wt. 172 lbs. 569.95

42-IN. SNOW THROWER (not shown) similar in features to (C). Fits Wards 1967-77 12- to 16-HP garden tractors except 33424, 33425, 33470, 33471. **89 A 33223 R—Ship. wt. 172 lbs. 569.95**

36-IN. SNOW THROWER (not shown). 14% in. auger opening. Power transmits through belt system. Double blade augers. Discharge chute rotates 180°. Fits Wards 1976-80 16- to 18-HP twin-cylinder models except 33424, 33425, 33470, 33471. **89 A 33430 R—Ship. wt. 136 lbs. 469.95**

36-IN. SNOW THROWER (not shown), similar to above but fits Wards 1967-77, 12- to 16-HP tractors. **89 A 33224 R—Ship. wt. 136 lbs. 469.95**

D Tractor cab permits all-weather use of your tractor.

FEATURES: Made of supported vinyl materials. 4 sections secured by couplers. Full-circle visibility. Fits Wards models 33424, 33425, 33470, 33471. **89 A 33480 R—Ship. wt. 55 lbs. 219.95**

TRACTOR CAB (not shown). Similar to above except fits Wards 1975-80 13-, 16- and 18-HP garden tractors except 33424, 25, 70, 71. **89 A 33176 R—Ship. wt. 55 lbs. 219.95**

E Tractor tire chains for added traction. Set of 2 chains. **89 A 33025 M—For 23x9.50-12 rear tires. Wt. 15 lbs. set 40.95**
89 A 33068 M—For 23x8.50-12 rear tires. Wt. 14 lbs. set 39.95
89 A 33015 M—For 23x10.50-12 rear tires. Wt. 16 lbs. set 41.95

F Pair of 75-lb. wheel weights. Fit on rear wheels for extra traction. Fit 12- to 15-in. rims. **89 A 33256 R—Ship. wt. 154 lbs. pair 89.95**

G 42-in. side discharge mower deck. 3-blade cutting. Free-floating action eliminates scalping. Fits tractors 33424, 25, 70, 71. Cutting heights adjust from 1% to 3% in. **89 A 33481 R—Ship. wt. 125 lbs. 359.95**

H 42-in. rear discharge mower deck. Features like above. **89 A 33483 R—Ship. wt. 136 lbs. 399.95**

I 40-in. tiller attachment with self-contained 5-HP Briggs & Stratton engine. Chain drive, 14-in. tines. Tills to 6 in. **89 A 33219 R—Ship. wt. 190 lbs. 529.95**

J 48-in. snow/dozer blade. Spring-loaded action protects blade. High carbon steel edge. Welded const. For models 33424, 25, 70, 71 only. **89 A 33475 R—Fits tractors at left. Wt. 112 lbs. 199.95**

Save energy—Insulate with thrifty clear sheeting

12.99 25-ft. 4-mil clear vinyl
15.99 25-ft. 6-mil clear vinyl
15.99 25-ft. butyrate

K Glass-clear 4-mil cast vinyl. Clearer, more durable than polyethylene. State no. of rolls.

Width	Length	Catalog number	Ship. wt.	Price
36 in.	25-ft. roll	89 A 21129 M	3 lbs.	12.99
36 in.	50-ft. roll	89 A 21130 M	6 lbs.	23.99
36 in.	100-ft. roll	89 A 21131 M	10 lbs.	44.99
48 in.	25-ft. roll	89 A 21132 M	4 lbs.	16.99
48 in.	50-ft. roll	89 A 21133 M	8 lbs.	32.99
48 in.	100-ft. roll	89 A 21134 M	13 lbs.	58.99

Heavy-duty clear calendared vinyl. Stays useable down to -20°F. 25 ft. long rolls. State number of rolls.

Gauge	Width	Cat. number	Ship. wt.	Price
8 mil.	36 in.	89 A 21137 M	5 1/4 lbs.	15.99
8 mil.	48 in.	89 A 21138 M	7 1/4 lbs.	19.99



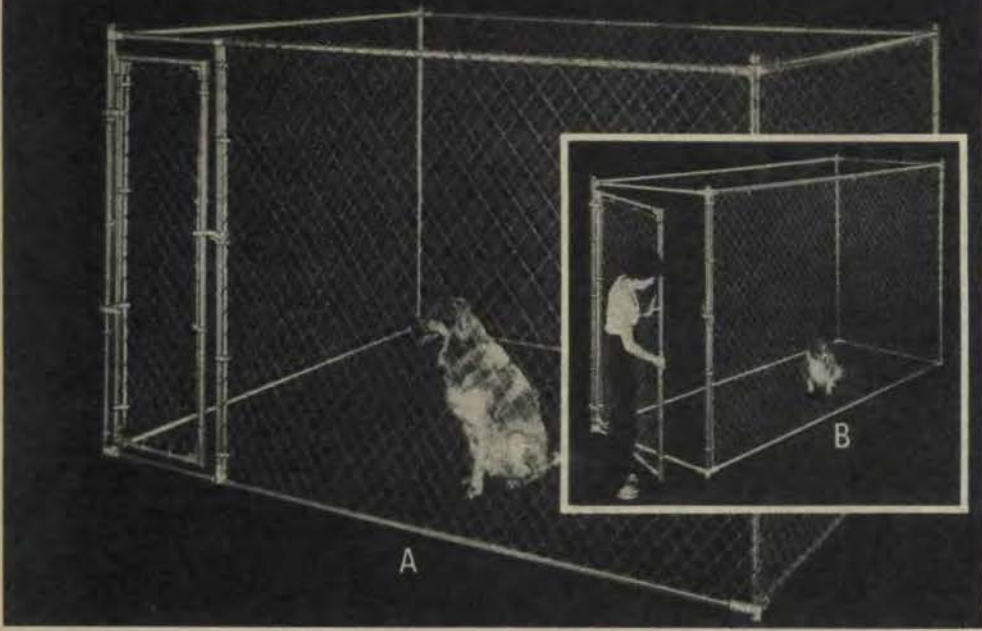
Extra-strong, glass-clear butyrate. Stays clear 2 to 3 years in sun. 25 ft. long rolls. State no. of rolls.

Gauge	Width	Cat. number	Ship. wt.	Price
5 mil	36 in.	89 A 21252 M	4 lbs.	15.99
5 mil	48 in.	89 A 21255 M	5 lbs.	20.80
10 mil	36 in.	89 A 21258 M	6 lbs.	29.99
10 mil	48 in.	89 A 21261 M	8 lbs.	38.99

L Plastic moulding strips for making storm windows. Incl. two 4-ft. strips, two 5-ft. strips, nails, instructions. **89 A 21220—1/2-in. wide. Ship. wt. 1 lb. 8.50**



AMC8SKF 965



Our strongest dog kennels

199⁹⁵ 274⁹⁵

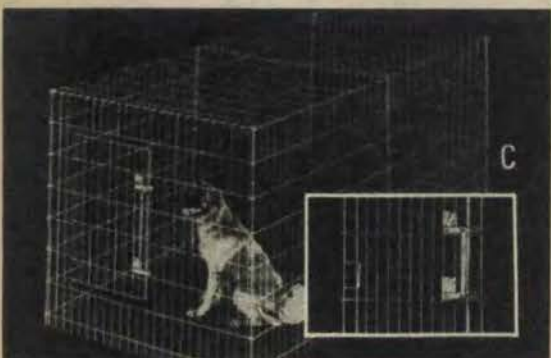
- Six feet high
- Free standing for easy installation, portability
- 5½-ft. high walk in gate—hinge to left or right

A,B Keep your largest, strongest pets secure enclosed.

CONSTRUCTION: Gate has drop-fork latch, can be locked with padlock (not included) or wire for added protection. 1½-in. O.D. galvanized tubular steel frame is rigidly secured with corner clamps. 11½-ga. steel wire is woven in 2¼x2¼-in. mesh, heavily aluminum coated to prevent rust and corrosion.

ORDERING INFORMATION: Shipped unassembled in two cartons to save you shipping costs. Instructions and fittings are included. Outside diameters and measurements are approximate.

- (A) 89 A 3468 R—8x10 feet (80 square feet)
Ship. wt. 205 lbs. 274.95
- (B) 89 A 3467 R—4x10 feet (40 square feet)
Ship. wt. 165 lbs. 199.95



Wire mesh exercise pens

C Easy to assemble exercise pens.

CONSTRUCTION: Heavy-gauge steel wire welded mesh is heavily galvanized for rust resistance. Steel rod posts anchor sections firmly in ground. Steel arch supports. Top sections form a firm roof. Free swinging door with heavy-duty double latch (see inset). Folds flat for storage. Dimensions are stated width x length.

- 89 A 5155 R—4x8 ft. 1 door. Wt. 65 lbs. 59.95
- 89 A 5154 R—8x8 ft. 1 door. Wt. 94 lbs. 84.95
- 89 A 5159 R—8x16 ft. 2 doors. Wt. 156 lbs. 157.95
- 89 A 5136 R—12x12 ft. 2 doors. Wt. 135 lbs. 189.95

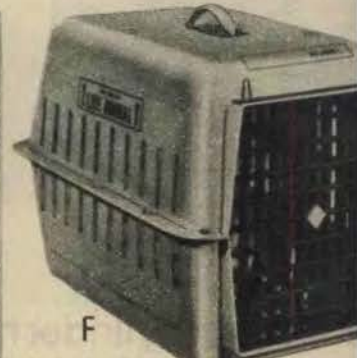


Portable steel pet cages

D,E Collapsible pet cages keep your pet secure.

CONSTR: Heavy gauge steel wire with galvanized steel floor pans that slide out for easy cleaning and are reinforced and seamless so they can't leak. Completely portable—even the largest size can be managed by one person. Heavy-duty double door latch. Cage (D) has legs at corners, 1½x4 in. wire spacing. Other cages without legs have 1¼x4 inch wire spacing. Dimensions are stated width x length x height.

- (D) 89 A 5249 A—18½x29x21 in. high. Wt. 18 lbs. 39.95
- (E) 89 A 5241 R—23x36x27 in. high. Wt. 22 lbs. 36.95
- 89 A 5160 R—18x27x24 in. high. Ship. wt. 17 lbs. 29.95
- 89 A 5161 R—24x46x34 in. high. Ship. wt. 46 lbs. 72.95



Pet travel kennels

F **CONSTRUCTION:** Durable, sanitary plastic. Snap together assembly. Spring lock door. Built in water cup can be filled from outside. Draft free ventilation. Absorbent floor filler. Complies with Public Law 94-270 concerning safe air transport of live dogs and cats.

Dimensions are stated length x width x height

89 A 5126 A—For cats, small dogs. 22x18x11 in. high. Ship. wt. 5 lbs. 5 oz. 19.95

89 A 5127 R—For med., sm. dogs. 26x19x11 in. high. Ship. wt. 8 lbs. 5 oz. 29.95

89 A 5128 R—For med. dogs. 31x22x23 in. high. Ship. wt. 12 lbs. 5 oz. 42.95



Take care of your pet's everyday needs

G Doggie Dooley installs in the ground like a mini septic tank.

OPERATION: Uses non-poisonous bacteria action to liquefy pet stools for ground absorption. Harmless to pets, shrubs, lawns.

INCLUDES: Clean-up shovel, moisture retaining inner liner, container, six month supply of Enzyo digester. Order extra Enzyo digester below.

- 89 A 5268—10x6 in. diameter. Ship. wt. 3 lbs. 14 oz. 10.95
- 89 A 5269—12 month supply (12 oz. bottle) Enzyo Digester. Wt. 14 oz. 3.95

H Chrome sani-scoop for cleaning up after your dog quickly and easily. 41 in. high. 89 A 5129 M—Ship. wt. 4 lbs. 8.45

I Two-way doggie door installs easily. Instructions included.

CONSTRUCTION: Styrene. Closes securely against rubber weatherstrip.

89 A 5175—For dogs under 74 lbs. 11x14 in. opening. Wt. 3 lbs. 8 oz. 19.95

89 A 5174—For dogs over 75 lbs. 11x18 in. opening. Wt. 4 lbs. 25.95

J All wood dog house is sturdy and functional.

CONSTRUCTION: ¾-in. exterior plywood with a shingled roof and pine stripping to raise the dog house from the ground.

DIMENSIONS: 36 inches long x 21 inches wide x 24 inches high.

ORDERING INFORMATION: Shipped unassembled. Easily assembled.

89 A 5130 A—Screws included. Ship. wt. 38 lbs. 48.95

DOG HOUSE FOR LARGER DOGS (not shown). Like above, but 48Lx27Wx30 in. H.

89 A 5131 R—Ship. wt. 65 lbs. 69.95

K Cat tree for scratching and climbing, with a comfortable round bed at the top.

CONSTRUCTION: Solid wood. Fully carpeted with burlap bottom lining. Includes self adjusting tension pole to accommodate ceilings from 7 feet 9 inches to 8 feet 3 inches. Made in assorted earth tones.

DIMENSIONS: 76 inches high. Rectangular shelves and base are 14¼x16¼ inches. Bed is 3½ inches deep, 16¼ inches inside diameter, 18½ inches outside diameter.

ORDERING INFORMATION: Shipped unassembled. Adj. wrench required for assembly.

89 A 5109 A—Instructions included. Ship. wt. 32 lbs. 41.95

New Kitty City—a playground for your cat ... loads of fun!

A-G Use your imagination and these carpet covered modules to design a play area your cats will love. Kitty City provides ample area for scratching, exercising and sleeping. **CONSTRUCTION:** Pressed wood completely covered with good quality shag carpeting on outside; bottom carpeted on inside. Neutral beige and brown. Constructed without nails, tacks or sharp edges that can harm your pet. Carpet applied with non-toxic glue.

ORDERING INFORMATION: Shipped unassembled. Tunnels snap into place with latch springs. Adjustable wrench required to attach posts and bases.

89 A 5100 A—Starter unit. 25 1/4 in. high. Ship. wt. 22 lbs. 8 oz.	27.95
89 A 5104 A—House module. 15 1/2 in. dia. 12 in. H. Ship. wt. 13 lbs. 8 oz.	19.95
89 A 5105 M—Ramp tunnel. 9 1/2 in. dia. x 24 in. long. Ship. wt. 7 lbs. 8 oz.	14.99
89 A 5106—Straight tunnel. 9 1/2 in. dia. x 18 in. long. Ship. wt. 5 lbs.	11.99
89 A 5103—Long post. 4 1/4 in. dia. x 23 1/2 in. high. Ship. wt. 4 lbs.	6.99
89 A 5102—Short post. 4 1/4 in. dia. x 11 1/2 in. high. Ship. wt. 3 lbs.	4.99
89 A 5101—Base. 16x16 in. square. 1 1/2 in. high. Ship. wt. 6 lbs. 8 oz.	7.99



A
Starter unit



NOTE: To build Kitty City as shown, order two starter units, one house module, one long connector, one ramp connector, and one straight tunnel.

Complete home clipper/grooming sets for dogs

H A complete home clipper/grooming set with features you would expect in an expensive professional model.

FEATURES: Snap off blade changing doesn't interrupt clipping. Built in light makes trimming easier and faster. Pivot motor cuts through thick, matted hair without stalling or slow downs. 8-ft. cord 115 volts AC. UL listed.

INCLUDES: Medium blade, special guide attachment, wire slick brush, oil applicator, metal comb, nail clippers, instructions and deluxe storage case.

89 A 5185—Ship. wt. 2 lbs. 12 oz. Mfr.'s Warranty* set 42.95

89 A 5189—Fine blade for close clipping. Ship. wt. 7 oz. ea. 9.49

89 A 5190—Coarse blade for general clipping. Ship. wt. 7 oz. ea. 9.49

89 A 5191—Poodle blade 3/8-in. cutting width. Ship. wt. 7 oz. ea. 11.95

Clipper set built to meet professional requirements for performance.

FEATURES: Cool-running quiet universal motor. Blade changing doesn't interrupt clipping—just press release button to snap off blade, snap on another. 2-ft. cord UL listed. 120 volt. AC.

INCLUDES: Professional quality clipper, blade guard, medium blade, cleaning brush, oil applicator, and clipper care manual.

89 A 5224—Ship. wt. 3 lbs. 9 oz. Mfr.'s Warranty* set 65.95

89 A 5265—Med. blade for general, under body clipping. Wt. 3 oz. ea. 10.95

89 A 5266—Coarse blade leaves hair 1 1/2 in. long. Wt. 3 oz. ea. 14.95

89 A 5267—Poodle blade for close cutting. Wt. 3 oz. ea. 14.95

J Complete home grooming in a compact package.

FEATURES: Adjustable blade can be set from fine to coarse. Reliable vibrator type motor. Red plastic housing. 8-ft. cord UL listed 115 volts AC.

INCLUDES: 4 trim attachments, nail trimmer, metal grooming comb, metal bristle brush, oiler and instructions.

89 A 5186—Ship. wt. 2 lbs. 8 oz. Mfr.'s Warranty* set 32.95

89 A 5193—Replacement blade. Ship. wt. 7 oz. 7.49

K Reliable Raycine clipper set.

FEATURES: Has dependable electromagnetic motor for trimming all breeds. 8-ft. cord, 115 volt AC. UL listed.

INCLUDES: 3 trim attachments for short, medium or longer cut, blade, cleaning brush, blade guard, oil applicator, instructions.

89 A 5188—Ship. wt. 1 lb. 12 oz. Mfr.'s Warranty* set 15.95

89 A 5192—Replacement blade. Ship. wt. 7 oz. ea. 6.49

***NOTE:** Write for free copy of Manufacturer's Warranty. See page 605.



ALL 967

Build your own chain link fence . . . add durable, attractive security to your property



Wards . . .
your fencing
professionals
since 1887

A Galv. and green vinyl fence fabric

Best galv. fabric				Better galv. fabric			
Z 89 A 3438 RHD				Z 89 A 3437 RHD			
9 gauge, 2-in. mesh				11 gauge, 2-in. mesh			
Ht. in.	Ship. wt. per ft.	Per ft.	50 ft. or more, per ft.	Ship. wt. per ft.	Per ft.	50 ft. or more, per ft.	
36 in.	2 lbs. 6 oz.	1.28	1.15	1 lb. 8 oz.	.96	.86	
42 in.	2 lbs. 12 oz.	1.44	1.29	1 lb. 11 oz.	1.09	.99	
48 in.	3 lbs. 2 oz.	1.64	1.47	2 lbs.	1.24	1.11	
60 in.	3 lbs. 12 oz.	2.09	1.88	2 lbs. 7 oz.	1.49	1.34	
72 in.	4 lbs. 7 oz.	2.44	2.19	2 lbs. 15 oz.	1.79	1.61	

Good galv. fabric				Best green-vinyl fabric			
Z 89 A 3444 RHD				Z 89 A 3460 RHD			
11 1/2 gauge, 2 1/2-in. mesh				9-ga. O.D., 2 1/2-in. mesh			
Ht. in.	Ship. wt. per ft.	Per ft.	50 ft. or more, per ft.	Ship. wt. per ft.	Per ft.	50 ft. or more, per ft.	
36 in.	1 lb. 4 oz.	.78	.71	1 lb. 7 oz.	1.14	.99	
42 in.	1 lb. 8 oz.	.92	.82	1 lb. 10 oz.	1.29	1.16	
48 in.	1 lb. 10 oz.	1.00	.91	1 lb. 14 oz.	1.49	1.34	
60 in.	2 lbs. 1 oz.	1.29	1.16	2 lbs. 5 oz.	1.85	1.66	
72 in.	2 lbs. 10 oz.	1.57	1.39	2 lbs. 15 oz.	2.24	1.99	

Steel posts

B, C Galv. posts—overall lengths shown. Set end, gate and corner posts (B) approx. 30 in. into ground; line posts (C) 24 in. Space line posts 10 ft. apart; gate, corner, end posts as needed. Post caps and fittings not incl. *State height when ordering.*

1 1/2-inch outside diameter				2-inch outside diam.			
Line posts				End, gate, corner posts			
Z 89 A 3674 RD				Z 89 A 3679 RD			
Ht. ft.	Ship. wt. lbs. oz.	Each	10 or more, each	Ht. ft.	Ship. wt. lbs. oz.	Each	5 or more, each
5	4 14	3.45	3.10	5 1/2	6 15	5.10	4.59
5 1/2	5 6	3.88	3.49	6	7 10	5.55	4.99
6	5 13	4.29	3.86	6 1/2	8 4	5.99	5.39
7	6 13	4.99	4.49	7 1/2	9 8	6.89	6.20
8	7 12	5.69	5.12	8 1/2	10 13	7.85	6.99

Our strongest post—2 1/2-in. O.D.

2 1/2-in. O.D. end, gate and corner posts. Our strongest post. Post caps and fittings not included. Height shown in chart is in feet.

Cat. no.—Z 89 A 3673 RD			
Ht.	Wt.	Each	2 or more, each
5 1/2	8 lbs. 13 oz.	6.49	5.84
6	9 lbs. 10 oz.	7.10	6.39
6 1/2	10 lbs. 7 oz.	7.69	6.92
7 1/2	12 lbs.	8.89	7.99
8 1/2	13 lbs. 10 oz.	9.99	8.99

Steel top rail

D Galvanized. Sold by foot in approx. 21-ft. lengths. Order exact footage needed. 1 1/2-in. O.D. Easy-to-connect swaged end. No sleeve needed.

89 A 3691 RHD—Wt. per ft. 14 oz. . . . per foot 56¢
21 feet or more per foot 49¢

ALUMINUM TIE WIRES. Fastens fabric to top rail and up to 2 in. O.D. line post. Space 18 to 24 in. on top rail, 12 in. on line posts. 100/pkg.

89 A 3641 D—Wt. 2 lbs. . . . pkg. 3.19
2 or more pkgs. pkg. 2.87

E Line post loop caps—100% prime die-cast aluminum. For 1 1/2-in. line post. 1 1/2-in. top rail.

89 A 3580 D—Wt. 4 oz. . . . ea. 48¢
10 or more ea. 43¢

Aluminum dome caps.

F For 2-in. post. Wt. 4 oz.
89A3571D—ea. 35¢; 5 or more, ea. 31¢

For 2 1/2-in. post. Wt. 5 oz.
89A3572D—ea. 52¢; 5 or more, ea. 46¢

H Flat tension bars. Galv. heavy steel.

ORDERING INFO: Order 1 bar for each end or gate post; 2 for each corner post. *State height.*

Z 89 A 3560 MD—For fence heights:

36 in. Ship. wt. 1 lb. 8 oz. . . . ea. 99¢
6 or more ea. 89¢

42 in. Ship. wt. 1 lb. 12 oz. . . . ea. 1.15
6 or more ea. 1.03

48 in. Ship. wt. 2 lbs. ea. 1.24
6 or more ea. 1.11

60 in. Ship. wt. 2 lbs. 8 oz. . . . ea. 1.85
6 or more ea. 1.66

72 in. Ship. wt. 3 lbs. ea. 2.35
6 or more ea. 2.11

G, J, I NEW! For your convenience, Wards has put all the necessary terminal post fittings except post cap and tension bar in one package.

INCLUDES: Aluminum rail end, rail end band, tension bands and nuts and bolts. Each package has the exact amount needed per post.

ORDERING INFO: Order 1 package per end/gate post; 2 packages per corner post. Check chart below.

Fence height	Post O.D. in.	Catalog number	Ship. wt. lbs. oz.	Price pkg.
36 in.	2	89 A 3615	1	1.74
42 in.	2	89 A 3615	1	1.74
48 in.	2	89 A 3615	1	1.74
60 in.	2	89 A 3616	1 3	1.99
72 in.	2	89 A 3616	1 3	1.99
36 in.	2 1/2	89 A 3617	1 3	2.49
42 in.	2 1/2	89 A 3617	1 3	2.49
48 in.	2 1/2	89 A 3617	1 3	2.49
60 in.	2 1/2	89 A 3618	1 6	2.59
72 in.	2 1/2	89 A 3618	1 6	2.59

Galvanized fabric gates AT WARDS LOW PRICES

INCLUDES: all fittings except male gate post hinges, order below left. 1 1/2-in. O.D. galvanized steel pipe frame with aluminum corner braces. 11-ga. galv. wire fabric filler held securely by steel tension bars. Driveway gate includes drop rod. Mount driveway gates on 2 1/2-in. O.D. posts.

ORDERING INFO: *State size code number.*

Z 89 A 3605 R—Single walk gate with 11-ga. 2x2-in. galv. fabric.

For fence ht.	Size code no.	Width between posts	Ship. wt.	Price
36 in.	36	3 ft.	26 lbs.	32.95
42 in.	42	3 ft.	30 lbs.	34.95
48 in.	48	3 ft.	33 lbs.	36.95
42 in.	242	3 1/2 ft.	35 lbs.	36.95
48 in.	248	3 1/2 ft.	39 lbs.	37.95
60 in.	260	3 1/2 ft.	48 lbs.	40.95
72 in.	272	3 1/2 ft.	53 lbs.	50.95
48 in.	448	4 ft.	44 lbs.	44.95
60 in.	460	4 ft.	53 lbs.	49.95
72 in.	472	4 ft.	59 lbs.	60.95

Z 89 A 3604 R—Drive gate. Opens at ctr. 11-ga. 2x2-in. galv. fabric.

10 ft. between posts				12 ft. between posts			
For fence ht.	Size code no.	Ship. wt.	Price	Size code no.	Ship. wt.	Price	
36 in.	36	89 lbs.	81.95	242	112 lbs.	99.95	
42 in.	42	102 lbs.	83.95	248	124 lbs.	103.95	
48 in.	48	110 lbs.	85.95	260	149 lbs.	124.95	
60 in.	60	129 lbs.	103.95	272	164 lbs.	144.95	
72 in.	72	141 lbs.	119.95				

Green-vinyl clad gates AT WARDS LOW PRICES

INCLUDES: Same frame, fittings as galv. above but with 9-ga. o.d. 2 1/2x2 1/2 in. vinyl-clad wire fabric filler. For mounting gate order male hinge below left. Mount driveway gates on 2 1/2-in. O.D. posts.

Z 89 A 3600 R—Single walk gates. *State code no.*

For fence ht.	Size code no.	Width btw. posts	Ship. wt.	Price each
36 in.	236	3 1/2 ft.	28 lbs.	33.95
42 in.	242	3 1/2 ft.	35 lbs.	35.95
48 in.	248	3 1/2 ft.	39 lbs.	37.95
60 in.	260	3 1/2 ft.	47 lbs.	40.95
72 in.	272	3 1/2 ft.	53 lbs.	50.95

Z 89 A 3601 R—Drive gates. Opens at center.

36 in.	42 in.	48 in.	60 in.	72 in.
36	42	48	60	72
10 ft.	10 ft.	10 ft.	10 ft.	10 ft.
89 lbs.	102 lbs.	110 lbs.	126 lbs.	141 lbs.
81.95	83.95	86.95	104.95	119.95

Wards lends you the tools

Put up your own fence—save installation costs! Wards tool kit includes post-hole digger, fence stretcher, stretcher bars, stretcher chain, level, fencing pliers, instruction booklet. Just add cat. no. 89 A 3627 R to order; include deposit. Return tools prepaid within 60 days in good condition—Wards will refund your deposit or credit your account. Wt. 65 lbs.

89 A 3627 R deposit 99.95

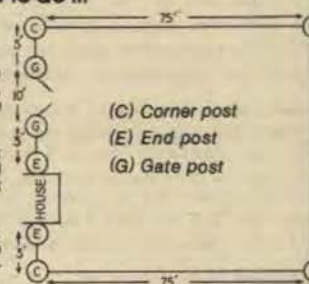
. . . and tells you how to do it.

How to measure for chain link

(1) Make sketch of area to be enclosed, showing location, measurement in ft. between end, gate and corner posts

(2) Add total footage, subtract width of gate openings for total running feet of fence outfit needed.

(3) List number of end, gate, corner posts, walk and drive gates needed, and order accordingly.



FREE Instructions

Detailed, illustrated instructions for chain link installation.
89 A 3699 D FREE



MALE GATE POST HINGES. Galvanized. Order 2 hinges for walk gate, 4 for drive. 1/2-in. O.D. steel pin, nut, bolt included.

89 A 3552—Fits 2-in. O.D. gate post. Wt. 1 lb. 2 for 1.99
89 A 3651—Fits 2 1/2-in. O.D. gate post. Wt. 1 lb. 3 oz. . . . 2 for 2.14

968 WARDS ALL



SAVE \$1-\$2 when you buy 2 or more rolls Galvanized Poultry Fence

CONSTRUCTION: Heavily galvanized steel for rust protection. Top and bottom wires of heavyweight fence are 12½-ga., balance is 15½-ga.; horizontal wire spacing 1 in. at bottom to 4 in. at top. Extra-heavyweight has 11-ga. top and bottom wires. Balance of fence 14½-ga.; horizontal wire spacing 1½ in. at bottom to 5 in. at top on 48 and 58 in., 1 in. to 4 in. on 72 in. ht. Sold in rolls of 165 ft.

Ht., in.	Quality	Cat. number	Ship. wt.	Price, ea.	2 or more ea.
48	Hvywt.	89 A 22849 RD	68 lbs.	38.99	37.99
60	Hvywt.	89 A 22850 RD	79 lbs.	45.49	43.99
72	Hvywt.	89 A 22851 RD	92 lbs.	51.99	49.99
48	Ex. hvywt.	89 A 22852 RD	93 lbs.	51.99	49.99
58	Ex. hvywt.	89 A 22853 RD	104 lbs.	56.99	54.99
72	Ex. hvywt.	89 A 22854 RD	127 lbs.	66.99	64.99

SAVE \$1-\$3 when you buy 2 or more rolls Welded mesh

CONSTRUCTION: Heavily galvanized for rust protection. Smoothly welded joints. Won't unravel when cut. Sold in rolls of 100 ft.

Ht. in.	Mesh size	Wire gauge	Catalog number	Ship. wt.	Price each	2 or more ea.
24	½x½ in.	19 ga.	89 A 22885 AD	43 lbs.	48.99	46.99
	½x1 in.	18 ga.	89 A 22888 RD	76 lbs.	73.99	71.99
36	1x1 in.	16 ga.	89 A 22891 RD	76 lbs.	55.99	53.99
	1x2 in.	14 ga.	89 A 22875 RD	93 lbs.	60.99	57.99
	2x4 in.	14 ga.	89 A 22896 RD	48 lbs.	32.99	31.99
	2x4 in.	12½ ga.	89 A 22878 RD	72 lbs.	37.99	35.99
48	½x½ in.	19 ga.	89 A 22887 RD	84 lbs.	67.99	64.99
	1x2 in.	14 ga.	89 A 22876 RD	122 lbs.	77.99	74.99
	2x4 in.	14 ga.	89 A 22897 RD	64 lbs.	42.99	40.99
	2x4 in.	12½ ga.	89 A 22879 RD	95 lbs.	53.99	51.99
60	2x4 in.	14 ga.	89 A 22898 RD	80 lbs.	53.99	51.99
	2x4 in.	12½ ga.	89 A 22880 RD	120 lbs.	67.99	65.99

Low as

2-in.
24-in.x50 ft.

Galvanized netting

Ht., in.	Ship. wt.	Price/roll	Ship. wt.	Price/roll
1-in. mesh	50-ft. roll	Z 89 A 22827 A	150-ft. roll	Z 89 A 22828 A
12	....	....	17 lbs.	12.49
24	10 lbs.	10.99	30 lbs.	23.49
36	15 lbs.	14.49	45 lbs.	33.99
48	19 lbs.	18.99	56 lbs.	45.49
60	....	....	69 lbs.	54.99
			Z 89 A 22828 R	
72	....	....	83 lbs.	66.99
2-in. mesh	50-ft. roll	Z 89 A 22832 A	150-ft. roll	Z 89 A 22833 A
24	5 lbs.	6.99	16 lbs.	11.99
36	8 lbs.	8.99	23 lbs.	16.99
48	10 lbs.	10.99	30 lbs.	22.99
60	....	....	37 lbs.	27.49
			Z 89 A 22833 R	
72	....	....	44 lbs.	31.99

- 20-ga. galv. steel for rust protection
- Hexagon mesh lock-twist construction with uniform spacing.

CONSTRUCTION: Reinforced with extra line wires for added strength, more uniform stretch. Rolls flat. All available except 72-in., 150-ft. roll. State height.

SAVE \$1-\$4 when you buy 2 or more rolls Stock fence

CONSTRUCTION: Hwy. wt. and suburban fence: closely spaced at bottom. 10-ga. top, bottom wires, 12½-ga. balance. Med. wt. fence 11-ga. top, bottom wires, 14½-ga. balance. Deep tension crimp keeps fence taut. Stock field and suburban fence: vertical wires 6 in. apart. Cattle and sheep fence: 10-ga. top, bottom wires, 12½-ga. balance. Vertical wires 12 in. apart. Sold in rolls of 330 ft. Suburban fence sold in 200 ft. rolls.

Type	Ht. in.	Horiz. wires	Catalog number	Ship. wt.	Price each	2 or more ea.
Hvy. wt.	26	7	89 A 22700 RD	128 lbs.	63.99	61.99
Stock, field	32	8	89 A 22701 RD	148 lbs.	73.99	70.99
fence	39	9	89 A 22702 RD	168 lbs.	83.99	80.99
	47	10	89 A 22703 RD	196 lbs.	94.99	90.99
Med. wt.	26	7	89 A 22826 RD	82 lbs.	48.99	46.99
Stock, field	32	8	89 A 22827 RD	92 lbs.	55.99	53.99
fence	39	9	89 A 22828 RD	104 lbs.	63.99	60.99
Cattle, sheep	35	6	89 A 22706 RD	100 lbs.	48.99	46.99
fence	45	8	89 A 22709 RD	128 lbs.	61.99	59.99
Suburban	35	6	89 A 22708 RD	100 lbs.	41.99	39.99
fence	45	8	89 A 22707 RD	128 lbs.	52.99	50.99

Barbed wire

CONSTRUCTION: Top quality; made in U.S.A. Heavy 12½-ga. 4-pt. wire. Extra-sharp barbs won't slip—tightly twisted around and through each cable. Spools of 80 rods (1320 ft.)—fences a ¼-mile single run.

89 A 22608 R—Ship. wt. 89 lbs. spool 43.99

12½-GA. 2 POINT BARBED WIRE. Like 4-pt. above only comes in 20 rod (330 ft.) spool.

89 A 22606 R—Ship. wt. 22 lbs. spool 15.49

GAUCHO HIGH-TENSILE 15½-GA. BARBED WIRE: Half the weight, less bulk than standard wire. Non-slip 4-pt. barbs. 1320-ft. spool.

89 A 22610 R—Wt. 44 lbs. spool 31.49

Galvanized fence stays

CONSTRUCTION: Rigid 9½-ga. steel stays are zinc coated to resist rust and corrosion.

FUNCTION: Use fewer fence posts by spacing posts further apart and using fence stays to keep wires taut. Make your present fence firm, sag free. Distributes stress evenly over all wires. Helps keep stock from breaking out by maintaining even spacing.

ORDERING INFORMATION: Sold in bundles of 100 stays.

89 A 22623 M—42 in. length. Wt. 41 lbs. bundle 24.49

89 A 22624 M—48 in. length. Wt. 47 lbs. bundle 27.49

Farm fence posts

CONSTRUCTION: Post with baked enamel finish (not shown). Clips spaced 6 in. apart, ¼-in. holes spaced 6 in. apart. 4x6-in. riveted anchor plate. 1¼x1 in. thick.

Z 89 A 23018 RD—State height and quantity wanted.

Height of post	Ship. wt. each	Each	Each, 10 or more
5 ft.	5 lbs.	2.79	2.65
6 ft.	6 lbs.	3.29	3.12
7 ft.	7 lbs.	3.99	3.79

CONSTRUCTION: Stays strong, easy to pull up and re-useable year after year. 1½x1¼x½-in. thick. Heavy ½-in. thick steel anchor plate. Two-coat baked enamel finish. Includes 5 wire fasteners.

Z 89 A 23014 RD—State height and quantity.

Hgt. of post	Ship. wt. each	Each	Each, 10 or more
5 ft.	7 lbs. 5 oz.	2.99	2.84
6 ft.	8 lbs. 8 oz.	3.59	3.39
7 ft.	10 lbs.	3.99	3.79

CONSTRUCTION: Heavy-duty studded "T" post holds fencing firmly with wire fasteners. Needs no anchor plate; flexes above ground, stays firm below. 1¼x1½-in. 5 wire fasteners included with each post. Installs easily.

Catalog no.	Height of post	Ship. wt. ea.	Each
89 A 23000 R	5 ft.	1 lb. 7 oz.	2.69
89 A 23001 R	6 ft.	1 lb. 12 oz.	3.19

Wards NEW super-size 14-ft. wide gable extendable lawn buildings.
Now you can build giant sizes from 14x13 to 14x41 ft. and longer!

An Outstanding Product

Build up to your projected needs then add optional side doors. With big 70-in. H. by 76-in. W. front doors and 70-in. H. by 55-in. W. side doors, you can use available space wisely and get to it easily. You can add optional windows, too! And Wards 7-step Guardian Finish means durability and superb weather protection.

14x13-ft. basic building

449⁹⁵

14x7-ft. extension

169⁹⁵

Window and door kits

49⁸⁸

door kit

49⁸⁸

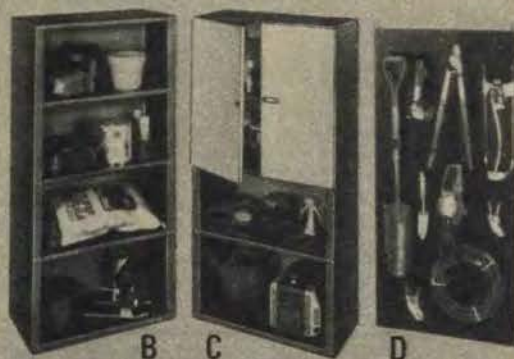
window kit

C Double-sliding doors for use with your extendable building.
FEATURES: Reinforced sliding steel panel doors. 70-in. high entry, 55-in. wide. Doors install in back wall of buildings for drive through feature; or in side wall of extension unit.
89 A 4071 R—Instr. and hardware incl. Ship. wt. 41 lbs. **49.88**

D 27x30-in. window—allows light and air into your building.
FEATURES: Sliding window—easy to open. Comes with screen and has corrosion resistant natural aluminum frame. Has 1/4-in. thick tempered glass. Window fits basic building or extension. Instr. and hardware included.
89 A 4072 R—Ship. wt. 16 lbs. **49.88**



A Anchor kit **22⁸⁸**



B Shelf units **29⁸⁸** and **34⁸⁸**

A Anchoring system secures buildings from the roof beams down without cement, provides excellent wind protection. Auger and cable system.
OPERATION: Cables pass through roof beams and attach to augers screwed into ground. Cables secured to augers with clamps. Kit includes 4 augers (30x1/2-in. rod, 4-in. dia. blade), 60-ft. galvanized aircraft cable and 4 clamps.
89 A 4316—2 kits needed for bldgs. over 10x13-ft. Ship. wt. 9 lbs. **22.88**

B-C Shelf-storage units fit all Wards buildings and most other makes.
CONSTRUCTION: Enclosed back and sides for containment. Pre-punched side holes for small hanging hooks. Adj. brackets attach to building.
FEATURES: Shelves, including top and bottom, are 28 in. wide, 14 in. deep. Unit is 60-in. high overall, 5 shelves.
(B) 89 A 36704 A—Unit without doors. Ship. wt. 30 lbs. **29.88**
(C) 89 A 36705 A—Unit with 2 doors covering top shelves. Wt. 35 lbs. **34.88**

D Wall organizer unit matches shelf units above.
FEATURES: Double steel panels 28x60-in. total size. Load bearing supports rest on floor. Pre-punched holes for hooks. 6 double, 10 single hooks incl.
89 A 36706 R—Ship. wt. 16 lbs. **18.88**
OVERHEAD BARN STORAGE RAFTER kit (not shown). Fits Wards 10-ft. bams.
FEATURES: 3-heavy-duty rafters fit on top of building frame.
89 A 4016 R—Ship. wt. 28 lbs. **16.88**
3-SHELF WALL STORAGE UNIT (not shown). Each shelf 33-in. wide, 10 1/2-in. deep. Steel with walnut enamel finish.
89 A 4043—Ship. wt. 11 lbs. **12.88**

Expecting heavy snow? Get a roof reinforcing kit from our 1980 Farm Book, pg. 173. See more lawn buildings, too. Pgs. 173-180, '80 Farm Book.

Wards extendable barn buildings with shelf unit

SAVE \$73-\$83

on basic 10x9- and 12x9-ft. buildings with shelf unit (B) at left

10x9-ft. **249⁷⁷**

12x9-ft. **339⁷⁷**

Extensions allow you to build larger sizes (see illustrations opp. p.)

129⁹⁵ 10x4-ft. extension

159⁹⁵ 12x4-ft. extension

E **ROOF CONSTRUCTION:** Sturdy gambrel style galvanized steel roof with overlapping ribbed panels. 3 channel support beams for greater strength. 10-ft. wide model has 7-ft. 5-in. peak height. 12-ft. wide model has 7-ft. 9-in. peak height.

WALL CONSTRUCTION: Board and Batten style steel panels with printed rustic walnut finish. Overlapping construction increases rigidity. Mid-wall braces for high wind resistance. Hot-dip galvanized steel frame keeps panel from contact with ground.

DOOR CONSTRUCTION: 4-panel gliding steel doors with handles that can be padlocked. Full 8-ft. wide entrance for easier access. Easy-gliding door system with heavy nylon rollers.

ORDERING INFORMATION: Building shipped unassembled. Assemble with household tools. Building and (B) shelf unit sold separately in the '80 Farm Book, pgs. 174 and 177.

10x9-ft. model. Inside: 9 ft. 7 in. wide, 9 ft. 2 in. deep. Building and shelf unit separately cost 322.83.

89 A 4031 R—Ship. wt. 299 lbs. **249.77**

12x9-ft. model. Inside: 12 ft. 1 in. wide, 9 ft. 2 in. deep. Building and shelf unit separately cost 422.83.

89 A 4032 R—Ship. wt. 359 lbs. **339.77**

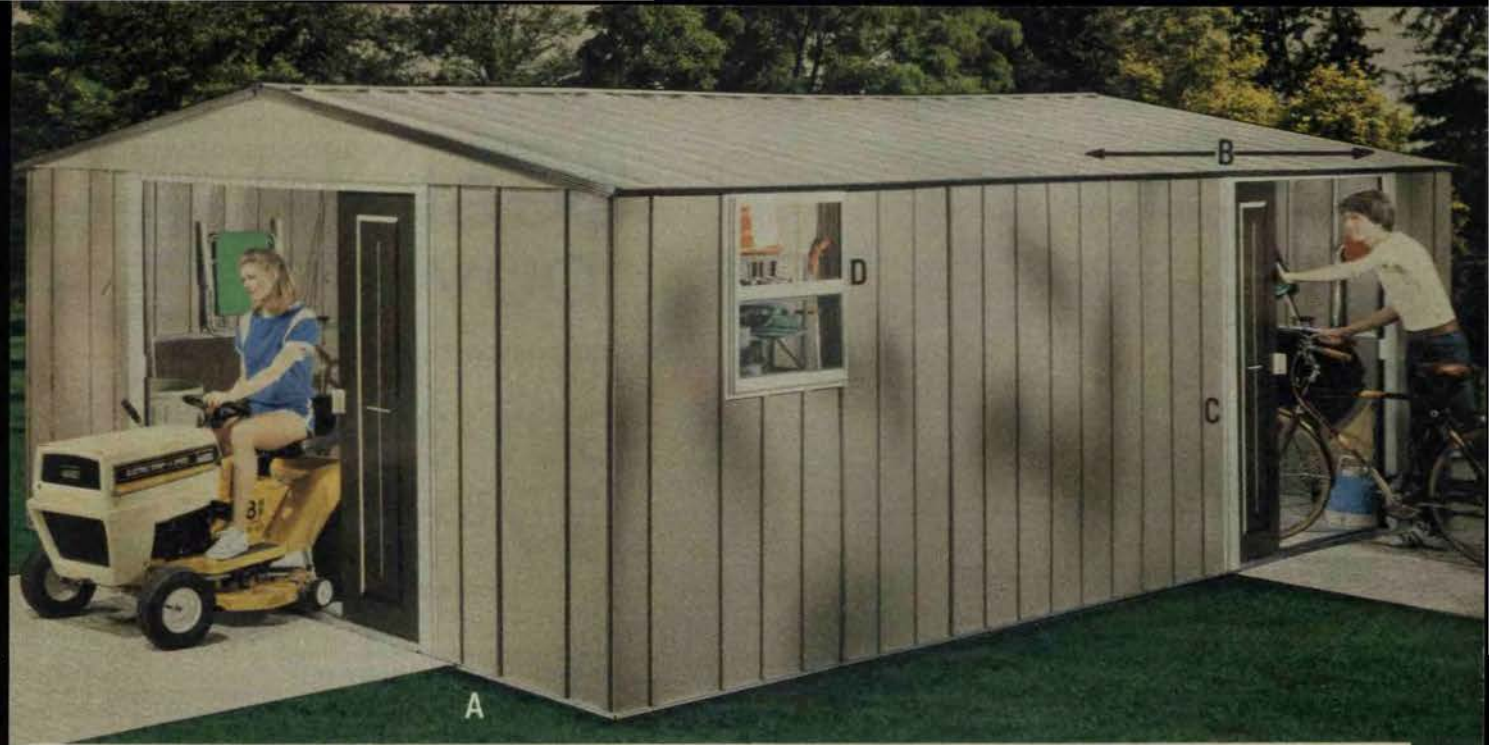
10x4-FT. EXTENSION (not shown). Use with 10x9-ft. building.

89 A 4090 R—Ship. wt. 95 lbs. **129.95**

12x4-FT. EXTENSION (not shown). Use with 12x9-ft. building.

89 A 4092 R—Ship. wt. 114 lbs. **159.95**

See Wards complete selection of lawn buildings and accessories in our 1980 Suburban Farm and Garden Catalog, pgs. 174-180



Some sizes you can build with extensions:



14x20-ft.: Basic building, 1 ext.



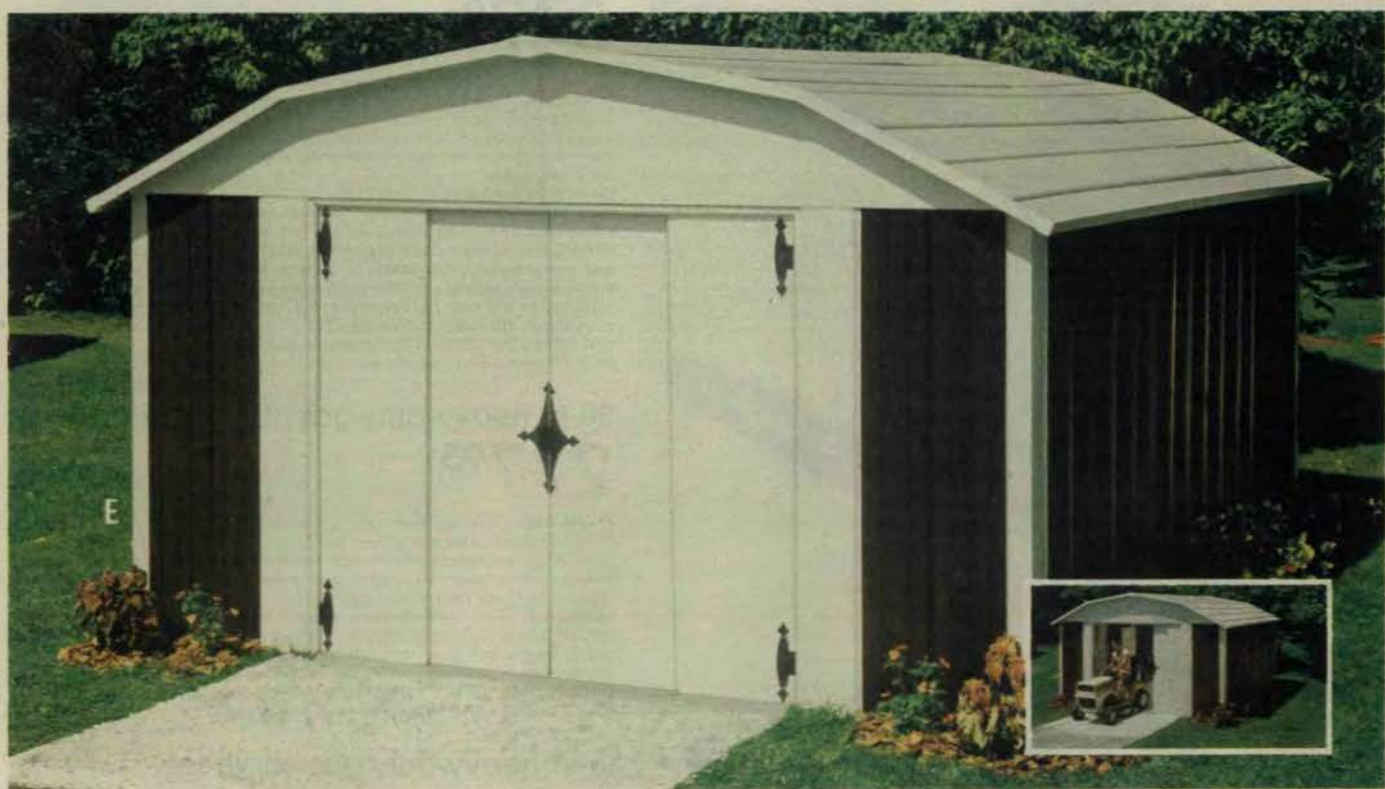
14x27-ft.: Basic building, 2 exts.



14x34-ft.: Basic building, 3 exts.



14x41-ft.: Basic building, 4 exts.



Sizes of buildings you can build with extensions:



10x13-ft.



10x17-ft.



10x21-ft.



12x13-ft.



12x17-ft.



12x21-ft.

16-in. sprocket nose bar delivers more power to the cutting edge, reduces wear

Chain brake stops moving chain in milliseconds... reduces kickback hazard

Wraparound handle gives you extra control

Anti-vibration system reduces fatigue

16-in. gas chain saw

A WARDS
**best
buy**

because this heavy duty saw at such a great low price has big features designed for your safety... like our chain brake that stops moving chain almost instantly plus a trigger lock and wraparound handle for extra control.

Comparison shopped for value

CUT \$30
177⁸⁸

A A remarkable low price for a great heavy-duty chain saw!

ENGINE: 2.3-cubic inch (38cc), 2-cycle engine with high tension magneto ignition for sure and easy starting. All-position carburetor allows you to cut at any angle. Spark arresting muffler with shield. Does not require extra shield. BAR: 16-inch laminated sprocket nose bar increases power to the cutting edge and reduces chain wear. Chain brake stops moving chain in milliseconds—reduces kickback hazard. Automatic and manual oiling system assures proper bar and chain lubrication.

CONSTRUCTION: Anti-vibration system reduces operator fatigue. Wrap-around handle gives you extra control. Throttle latch holds throttle in position for quick, easy starting. Trigger lock prevents accidental acceleration.

ORDERING INFORMATION: Covered by Wards Warranty, see warranty notice on opposite page, lower left.

PRICE CUT: From 1980 Farm Book, page 31.

89 A 24078 A—Ship. wt. 13 lbs. 9 oz. Was 207.95; now 177.88

New 24-in. heavy duty gas chain saw

347⁹⁵

B Wards largest heavy duty saw handles the really big jobs!

ENGINE: High performance 3.7-cu. in. (60cc), 2-cycle engine designed to produce 30% more cutting power than our other heavy duty chain saw engines. Equipped with compression release valve for easier starting. Electronic ignition for less maintenance. All-position carburetor allows you to cut at any angle.

BAR: 24-in. laminated sprocket nose bar with replaceable sprocket tips gives more power to the cutting edge. Manual and automatic oiling.

CONSTRUCTION: Anti-vibration system reduces user fatigue. Features designed for safety include trigger to prevent accidental engagement of chain and wraparound chain brake to reduce kickback hazard. Chain catcher protects user against possible chain break. Other features include fuel level sight gauge and dual bucking spikes for added stability while cutting. Spark arresting muffler with built-in shield.

ORDERING INFORMATION: Warranty. See opposite page, lower left.

89 A 24088 A—Ship. wt. 21 lbs. 347.95

20-in. heavy-duty gas chain saw

277⁹⁵

C ENGINE: 3.7-cubic inch (60cc), 2-cycle engine with electronic ignition. All-position carburetor allows you to cut from any angle.

BAR: 20-in. laminated sprocket nose bar increases power to cutting edge and reduces chain wear. Automatic and manual oiling system. Chain brake reduces kickback hazard.

CONSTRUCTION: Anti-vibration system reduces operator fatigue. Rear handle design increases starting stability and control. Wraparound hand guard. Trigger lock prevents accidental starting. Fuel gauge sight for easy fuel checks. Spark arresting muffler with built-in shield.

ORDERING INFORMATION: Warranty, see opposite page, lower left.

89 A 24086 A—Ship. wt. 19 lbs. 277.95

16-in. heavy-duty gas chain saw

257⁹⁵

D ENGINE: 3.7-cubic inch (60cc), 2-cycle engine with electronic ignition. All position carburetor allows you to cut from any position.

BAR: 16-in. sprocket nose bar with chain brake. Automatic and manual oiling system insures proper lubrication.

CONSTRUCTION: Anti-vibration system reduces after-use fatigue. Wrap-around chain brake/hand guard reduces cutting hazards. Trigger lock prevents accidental acceleration. Spark arresting muffler with built-in shield.

ORDERING INFORMATION: Warranty. See opposite page, lower left.

89 A 24084 A—Ship. wt. 19 lbs. 257.95

16-in. gas featherweight chain saw

Our best chain saw has Quik-Sharp to sharpen the chain at the touch of a button and a super cutting 16-in. sprocket nose bar... tackles trees up to 32 in. diam.



197⁹⁵



E Our best featherweight combines outstanding features with outstanding balance for superior cutting—you can tackle trees up to 32 inches in diameter.

ENGINE: Powerful 2.1-cu. in. (35cc), 2-cycle with reliable solid-state ignition. All-position carburetor lets you cut from any angle—even upside down. Spark arresting muffler with muffler shield to protect operator. Does not require extra shield. 11.2-oz. fuel tank capacity. 3.4-oz. oil tank capacity.

GUIDE BAR: 16-in. sprocket nose bar. Sprocket nose increases cutting speed up to 20%. 3/4-in. pitch low profile chain. Quik-Sharp sharpens a dulled chain automatically at the touch of a button. Chain brake stops moving chain in milliseconds to reduce kickback hazard. Chain catcher.

CONSTRUCTION: Anti-vibration system reduces operator fatigue. Hand guard. Handle and pistol grip with safety trigger. Manual and automatic oiling for proper bar/chain lubrication.

ORDERING INFORMATION: Warranty. See below for details, UL listed. Actual wt. 11.8 lbs. 89 A 24068—Ship. wt. 12 lbs. 8 oz. 197⁹⁵

- Chain brake stops moving chain in milliseconds
- Manual and automatic oiling systems
- Anti-vibration system... reduces user fatigue
- Throttle latch makes for quicker, easier starts

All of our featherweight saws have these great features:
ENGINES: 2.1 and 2.0-cu. in. engines (35 and 32 cc) with all-attitude carburetor so you can cut from any angle. Equipped with spark arresting lo-tone muffler with built-in shield.

BARS: 14 and 12-in. models have sprocket nose bars which provide up to 20% more cutting power to the bar's nose. 10-in. model has hard nose bar. 3/4-in. pitch low profile chain. Manual and automatic oiling systems ensure proper chain/bar lubrication at all times. All have chain brake to stop moving chains in milliseconds—protects operator against kickback hazard.

OPERATOR CONTROLS: All controls right at your fingertips. Throttle latch holds throttle in open position for fast, easy starts. Trigger lock prevents accidental starting.

ORDERING INFO: Covered by Wards Warranty, see below.

F 14-in. model has laminated sprocket nose bar and 2.1-cu. in. engine. Also features solid state electronic ignition that eliminates the need for points and condenser and reduces maintenance. UL listed. Actual weight 11.4 lbs.

89 A 24066—Ship. wt. 12 lbs. 2 oz. 177⁹⁵

G 12-in. model features laminated sprocket nose bar and 2.0-cu. in. engine. UL listed. Actual weight 9.9 lbs.

89 A 24064—Ship. wt. 11 lbs. 9 oz. 118⁹⁵

H 10-in. model has 2.0-cu. in. engine. UL listed. Actual wt. 9.8 lbs.

89 A 24062—Ship. wt. 11 lbs. 4 oz. 87⁹⁵

CHAIN SAW OIL (not shown). For engine. Pkg. of six 6-oz. cans.

89 A 24194—Ship. wt. 2 lbs. 8 oz. pkg. 4.49

BAR AND CHAIN LUBRICANT. Reduces friction.

89 A 24195—Ship. wt. 2 lbs. 4 oz. qt. 2.69



Our lowest priced gas chain saw

87⁹⁵



Feature packed electric saws

88⁹⁵ 68⁹⁵ 33⁹⁵

Oregon® replacement chains for Wards saws

Bar length (in.)	Chain pitch (in.)	No. of drive links	For saw models	Catalog number	Wt. oz.	Price
14	3/4 LP	50 C	30048	89 A 24305	9	17.49
14	3/4 LP	49 C	24066, 30039	89 A 24245	8	11.99
12	3/4 LP	44 C	24064, 30035	89 A 24246	7	10.99
10	3/4 LP	38 C	24062	89 A 24286	7	9.99
16	3/4	54 C with stone	24068	89 A 24289	10	19.49
16	3/4	80 C	24078	89 A 24290	11	17.49
16	3/4	60 C	24084	89 A 24291	12	16.99
20	3/4	71 C	24086	89 A 24292	13	23.49
24	3/4	81 C	24088	89 A 24293	13	25.49

Electric and Gas Chain Saw Warranty

Warranty: Full one year Warranty on Wards chain saws. Montgomery Ward warrants these chain saws in personal or family use against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. Saws in other than personal or family use are warranted on the same basis for 30 days. This warranty does not cover repairs necessary because of failure to operate or maintain saw in accordance with instructions. For Warranty service return saw with required evidence of date of purchase to any Montgomery Ward branch. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Company, One Montgomery Ward Plaza, Chicago, IL 60671. This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

I Electric chain saws are lightweight, but have powerful, high torque motors and our finest 14-in. model has Quik-Sharp which sharpens a dull chain at the touch of a button.

MOTORS: High-torque 1 1/4 or 1 1/2-HP motors supply plenty of power. 110-120 v. 60-cycle AC motors are double insulated so they need no grounding. UL listed.

BARS: 14-in. models have sprocket nose bars that deliver 20% more cutting power to the edge. 8-in. model has hardnose guide bar. 3/4-in. pitch low profile chains. Fingertip manual oiler for quick bar/chain lubrication.

CONSTRUCTION: Wide spread front handle increases cutter leverage. Trigger lock prevents accidental starts. Cuts from any angle.

ORDERING INFORMATION: Covered by Wards Warranty, see note at left.

14-in. model (shown) with Quik-Sharp automatic sharpening system.

89 A 30048—Ship. wt. 8 lbs. 1 oz. 88⁹⁵

14-in. sprocket nose chain saw (not shown) like above, but without Quik-Sharp.

89 A 30039—Ship. wt. 8 lbs. 68⁹⁵

8-in. hardnose chain saw (not shown) with 1 1/4-HP motor.

89 A 30031—Ship. wt. 5 lbs. 2 oz. 33⁹⁵

NOTE ON ELECTRIC CHAIN SAWS: Use a 16-ga. extension cord if cord is under 100 ft. long. Use a 14-ga. cord if over 100 ft. long.

Wards Briggs & Stratton winterized engines are protected by a weather-shield system that guards critical engine parts for cold weather starts



Easy-spin® starting reduces pulling effort with unique patented cam gear design. Sealed anti-roll back clutch keeps snow and water out—insures positive rewind starts.

Weatherproofed ignition system incorporating nickel plated breakers for longer life and high voltage for easier starts.

Engine hood keeps snow away from carburetor and governor areas—recirculates warm air to prevent icing. Fuel tank is epoxy sealed to resist rust and corrosion.



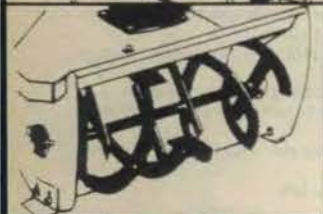
Two-cycle 3-HP engine designed for our Snowgetter 3

Our new 3-HP, 102cc, 2-cycle Briggs & Stratton engine has die cast engine port design. Provides more power than many conventional two-cycle engines. Fuel pump equipped carburetor lets you clear snow at any angle.

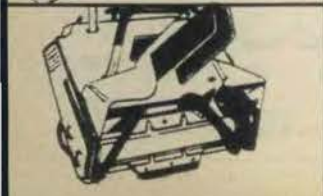
3 choices in Wards easy-to-handle snow throwers



Two-stage design on our larger snowthrowers has a big auger (1st stage) that slices through snow and then feeds it to a high speed impeller (2nd stage) which propels it out the discharge chute.



Single-stage design on our mid-size snowthrowers features a rugged high speed single auger that collects snow and hurls it directly through the discharge chute.



Our Snowgetters have the slicing action of a spiral rubber auger which gathers, compresses and throws the snow in a concentrated stream—a big advantage over flat paddle machines.

974 WARDS AMCBSKF



8-HP snow thrower clears a big 26-in. path **819⁹⁵**

A 8-HP, 5-speed, 2-stage snowthrower cuts through the big snowfalls. POWER: 8-HP, 319cc, fully winterized Briggs & Stratton 4-cycle engine. 5 forward speeds, 2 reverse.

ACTION: 26-in. clearing width and 2-stage auger action with 10½-in. diameter impeller that combine to blow snow up to 25 feet away. 14-in. auger with 20-inch intake height. Discharge chute rotates 200°.

FEATURES: Single control for traction and auger drive, semi-pneumatic 12x3.5 tires. Wheel lockout feature allows free movement without operating engine.

89 A 35263 RT—Warranty.* Ship. wt. 272 lbs. 819.95

89 A 35234 T—110v electric start kit for #35263, #35253—Wt. 10 lbs. 83.95

89 A 499 T—Tire chains for #35263 and #35233. Ship. wt. 6 lbs. pr. 22.95

5-HP, 5-SPEED, 2-STAGE SNOWTHROWER: Similar to above, clears a 24-in. path. POWER: 5-HP, 206cc fully winterized Briggs & Stratton engine.

ACTION: 2-stage auger action. 12-in. diam. auger with 18½-in. intake height. Discharge chute with deflector rotates 200°.

FEATURES: Single control for traction and auger drive. Semi-pneumatic 10.25x3.25 tires.

89 A 35261 RT—Warranty.** Ship. wt. 180 lbs. 589.95

89 A 35218 XT—110v electric start kit for #35261 and #35211. Wt. 10 lbs. 78.95

89 A 475 T—Tire chains for #35261 and #35211—Ship. wt. 4 lbs. pr. 21.95

*Covered by Wards Warranty #2, see below.

**Covered by Wards Warranty #1, see below.

#1. Full One Year Warranty for equipment up to and including 5-HP

Montgomery Ward warrants this equipment in personal or family use against defects and will repair any defect free of charge for parts or labor, for one year from date of purchase. Equipment in other than personal or family use is warranted on the same basis for thirty days. This warranty does not cover repairs necessary because of failure to operate or maintain equipment in accordance with instructions. For warranty service return equipment with required evidence of date of purchase to any Montgomery Ward branch. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

#2. Full One Year Warranty for equipment over 5-HP

Montgomery Ward warrants this equipment in personal or family use against defects and will repair any defect free of charge for parts or labor for one year from date of purchase. Equipment in other than personal or family use is warranted on the same basis for thirty days. This warranty does not cover normal operating adjustments to ignition parts or carburetor, or repairs necessary because of failure to operate or maintain equipment in accordance with instructions. For warranty service contact any Montgomery Ward branch. Evidence of date of purchase required. For location of nearest branch consult phone directory or write National Customer Relations Manager, Montgomery Ward & Co., One Montgomery Ward Plaza, Chicago, IL 60671. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



Match a snowthrower to your needs

\$944	479⁹⁵	409⁹⁵	289⁹⁵
11-HP 2-stage	5-HP 1-stage	3½-HP 1-stage	New Snowgetter

B Our largest self-propelled snowthrower is priced lower than last year! Includes a 12v key electric start system.

POWER: 11-HP, 399cc, fully winterized Briggs & Stratton 4-cycle engine. Five forward speeds controlled by single lever. Neutral and two power reverse speeds that let you back up and stop easily by releasing lever. Wheel pin locking feature allows choice of differential action or straight axle drive. Controls within easy reach. Alternator recharges battery while operating.

ACTION: Huge 33-in. clearing width and powerful 2-stage auger action with 14-inch diameter impeller that throws snow up to 25 feet away. Large 16-in. auger with 20-in. intake height to clean large areas. Drift cutter bars. Discharge chute rotates 210°. Large pneumatic 16x6.50 in. tires. Headlight for night use. Warranty.*

89 A 35256 RT—Was 979.95 '80 Farm Book, page 80. Wt. 310 lbs. **944.00**
89 A 1384 MXT—Tire chains for #35256. Ship. wt. 12 lbs. 8 oz. **pr. 32.95**

C 5 HP, single stage, self-propelled snow thrower clears a 20-inch path.

POWER: Fully winterized, 4-cycle, 5-HP, 206cc Briggs & Stratton engine. Heavy duty gear transmission with one forward speed, neutral and power reverse. Easy-spin recoil start with key shut off.

ACTION: Single-stage 12-inch diameter auger with 16-in. intake height clears a 20-in. path through soft or packed snow. Turning control with worm gear rotates chute 210°. Independent drive and auger clutches. Adjustable slide shoes and rear scraper blade. 10x2.75 semi-pneumatic tires.

89 A 35255 RT—Warranty ** Ship. wt. 195 lbs. **479.95**
89 A 35218 XT—110v electric start kit for #35255. Ship. wt. 10 lbs. **78.95**
89 A 35209 T—Tire chains for #35255. Ship. wt. 3 lbs. **pr. 20.95**

D 3½-HP, 1-speed, single stage, self-propelled snow thrower clears 20-inch path.

POWER: 3½-HP, 148cc, fully winterized Briggs & Stratton engine. One forward speed. Simply depress levers to start auger and self-propelled action. Release and auger stops, but engine keeps running. 10x1.75 in. tires.

ACTION: Single-stage auger action. Discharge chute rotates 200°.

89 A 35210 RT—Warranty ** Ship. wt. 112 lbs. **409.95**
89 A 35220 T—Tire chains for #35210. Ship. wt. 3 lbs. 5 oz. **18.95**

*Covered by Wards Warranty #2, see opposite page.

**Covered by Wards Warranty #1, see opposite page.

NOTE: Ft. Worth customers only. Orders will be shipped from Kansas City. You pay shipping costs from Ft. Worth.

E New 3-HP Snowgetter 3. Lightweight snowthrower clears 20-in. path.

POWER: New 3-HP, 102cc, 2-cycle Briggs & Stratton engine, pictured and described in detail on opposite page. Easy-spin recoil starting. Capable of accepting an optional electric start kit (sold below) for even easier starting.

ACTION: Efficient spiral rubber auger design described on opposite page.

FEATURES: Auger clutch lever allows operator to stop augers without stopping the engine. Three-position dual vane chute throws snow right, left or to the center, allows snow to be discharged in a concentrated stream. Hangs for easy storage. Weighs only 38 lbs. 6x1.75 semi-pneumatic tires.

89 A 35260 RT—Warranty ** Ship. wt. 45 lbs. **289.95**

89 A 35207 T—110v electric start kit for #35260. Ship. wt. 4 lbs. **48.95**

NOTE: All snowthrowers sold on these two pages require some assembly. Can be assembled easily with hand tools.



CUT \$40
Push-type snowblower 239⁸⁸

Our lowest priced snowthrower

Wards lightweight Snowgetter 3. **POWER:** 2½-HP, 2 cycle Tecumseh 85cc engine with recoil starting. **ACTION:** Rubber augers quickly clear a 20-inch path. Convenient clutch lever on handle allows you to stop auger while engine runs. **FEATURES:** Single vane deflector adjusts for front, right or left snow throwing. Hangs for storage. Weighs only 38 lbs. 6x1.75 semi-pneumatic tires.

ORDERING INFORMATION: Covered by War. #1 on opp. page. Was 284.88, 80 Farm Bk., pg. 80.
89 A 35250 RT—Wt. 45 lbs. **239.88**

AMCSKF WARDS 975